

chain bonds :
 7-12 8-10 10-11 10-29 12-13 13-26 15-16 15-19 16-17 20-21
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
 exact/norm bonds :
 5-7 6-9 7-8 7-12 8-9 10-11 10-29 12-13 13-26 15-16 15-19 16-17 20-21
 exact bonds :
 8-10
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6

G1:Cb,Ak

G2:H,Cb,Cy,Ak,Hy

G3:[*1],[*2]

G4:O,N,OH,MeO,EtO,n-PrO,i-PrO,n-BuO,i-BuO,s-BuO,t-BuO,PhO,NH,NH2,NH3

Match level :

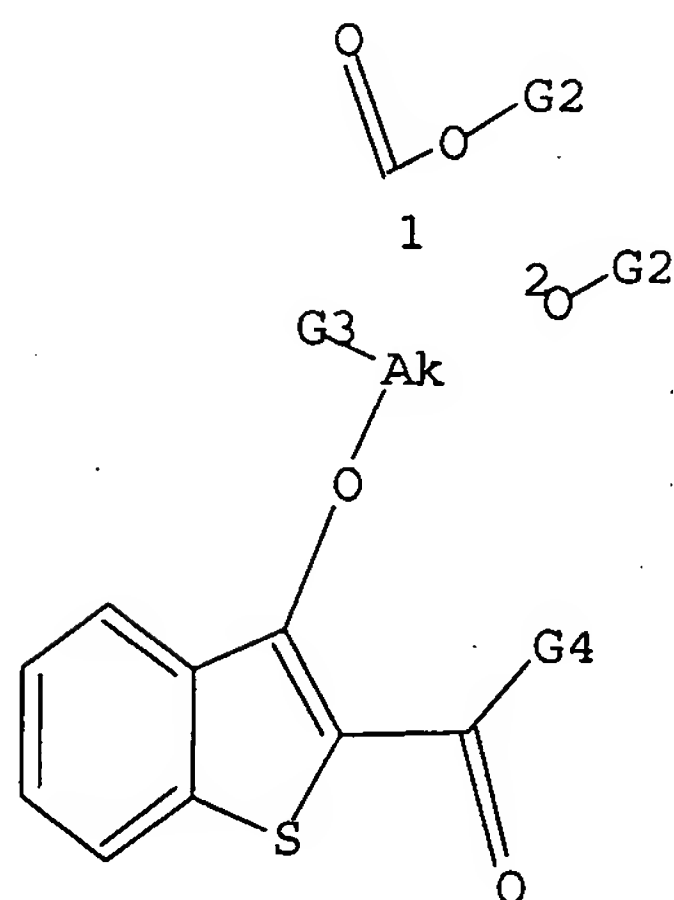
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
 11:CLASS 12:CLASS 13:CLASS 15:CLASS 16:CLASS 17:CLASS 19:CLASS 20:CLASS
 21:CLASS 26:CLASS 29:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 Cb,Ak

G2 H,Cb,Cy,Ak,Hy

G3 [@1],[@2]

G4 O,N,OH,MeO,EtO,n-PrO,i-PrO,n-BuO,i-BuO,s-BuO,t-BuO,PhO,NH,NH2,NH3

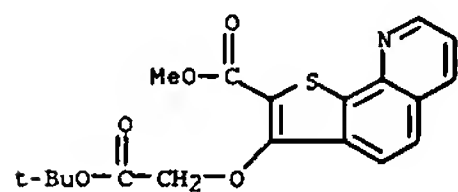
Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 12:32:22 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1782 TO ITERATE

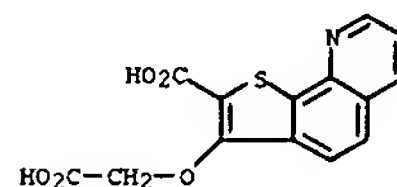
L2 ANSWER 1 OF 126 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 892127-72-9 REGISTRY
 ED Entered STN: 12 Jul 2006
 CN Thieno[3,2-h]quinoline-2-carboxylic acid, 3-[(2-(1,1-dimethylethoxy)-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 3-[(tert-Butoxycarbonyl)methoxy]thieno[3,2-h]quinoline-2-carboxylic acid methyl ester
 MF C19 H19 N O5 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

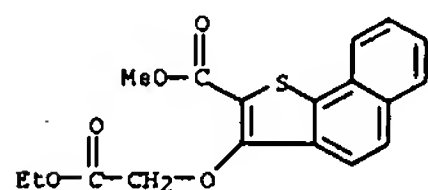
L2 ANSWER 2 OF 126 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 892127-68-3 REGISTRY
 ED Entered STN: 12 Jul 2006
 CN Thieno[3,2-h]quinoline-2-carboxylic acid, 3-(carboxymethoxy)- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 3-Carboxymethoxythieno[3,2-h]quinoline-2-carboxylic acid
 MF C14 H9 N O5 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

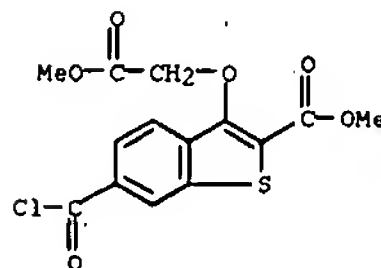
L2 ANSWER 3 OF 126 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 881033-93-8 REGISTRY
 ED Entered STN: 19 Apr 2006
 CN Naphtho[1,2-b]thiophene-2-carboxylic acid, 3-(2-ethoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 3-[(Ethoxycarbonyl)methoxy]naphtho[1,2-b]thiophene-2-carboxylic acid methyl ester
 MF C18 H16 O5 S
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

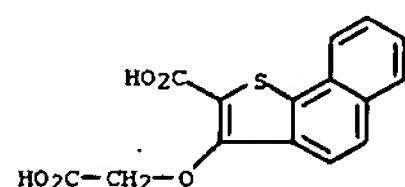
2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 126 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 881033-90-5 REGISTRY
 ED Entered STN: 19 Apr 2006
 CN Benzo[b]thiophene-2-carboxylic acid, 6-(chlorocarbonyl)-3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)
 MF C14 H11 Cl O6 S
 SR CA
 LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

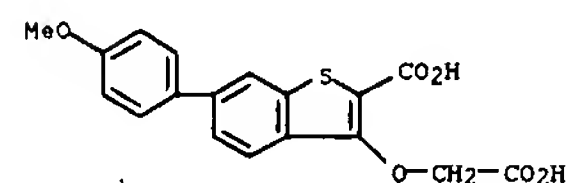
L2 ANSWER 5 OF 126 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 881033-59-6 REGISTRY
 ED Entered STN: 19 Apr 2006
 CN Naphtho[1,2-b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 3-Carboxymethoxynaphtho[1,2-b]thiophene-2-carboxylic acid
 MF C15 H10 O5 S
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

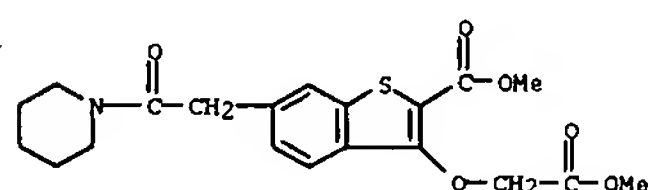
2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 126 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 863962-82-7 REGISTRY
 ED Entered STN: 26 Sep 2005
 CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)
 MF C18 H14 O6 S
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

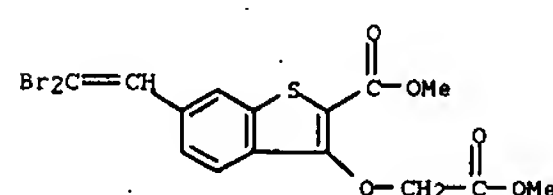
L2 ANSWER 7 OF 126 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 863906-26-7 REGISTRY
 ED Entered STN: 26 Sep 2005
 CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-6-(2-oxo-2-(1-piperidinyl)ethyl)-, methyl ester (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 3-[(Methoxycarbonyl)methoxy]-6-[2-oxo-2-(piperidin-1-yl)ethyl]benzo[b]thiophene-2-carboxylic acid methyl ester
 MF C20 H23 N O6 S
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

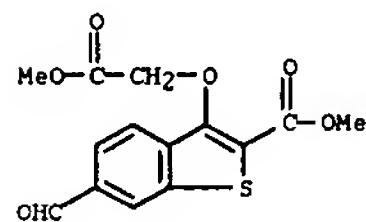
L2 ANSWER 8 OF 126 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 863906-24-5 REGISTRY
 ED Entered STN: 26 Sep 2005
 CN Benzo[b]thiophene-2-carboxylic acid, 6-(2,2-dibromoethenyl)-3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 6-(2,2-Dibromovinyl)-3-[(methoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester
 MF C15 H12 Br2 O5 S
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

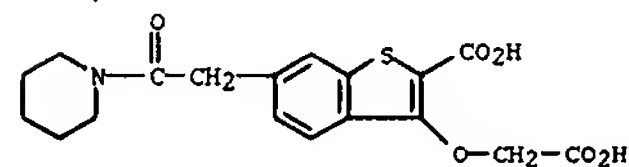
L2 ANSWER 9 OF 126 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 863906-22-3 REGISTRY
 ED Entered STN: 26 Sep 2005
 CN Benzo[b]thiophene-2-carboxylic acid, 6-formyl-3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 6-Formyl-3-[(methoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester
 MF C14 H12 O6 S
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 10 OF 126 REGISTRY COPYRIGHT 2007 ACS on STN
 RN 863906-20-1 REGISTRY
 ED Entered STN: 26 Sep 2005
 CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[2-oxo-2-(1-piperidinyl)ethyl]- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 3-Carboxymethoxy-6-[2-oxo-2-(piperidin-1-yl)ethyl]benzo[b]thiophene-2-carboxylic acid
 MF C18 H19 N O6 S
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	191.60	191.81

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FILE LAST UPDATED: 15 Jul 2007 (20070715/ED)

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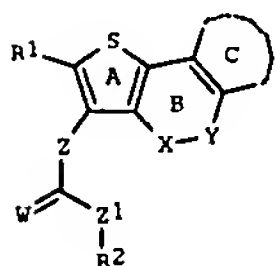
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L3 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:606298 CAPLUS
DOCUMENT NUMBER: 145:83301
TITLE: Preparation of tricyclic fused thiophene derivatives as protein tyrosine phosphatase 1B (PTP1B) modulators
INVENTOR(S): Lee, Jinbo; Smith, Michael J.; Moretto, Alessandro; Fabio, Wan, Zhao-Kui; Binnun, Eva Deanna; Xu, Weixin; Foreman, Kenneth W.; Joseph-McCarthy, Diane M.; Erbe, David V.; Tam, Steve Y.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 45 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

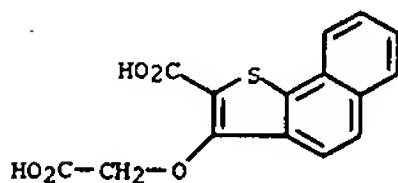
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006135488	A1	20060622	US 2005-285223	20051122
PRIORITY APPLN. INFO.:			US 2004-630623P	P 20041124
OTHER SOURCE(S):		MARPAT 145:83301		

GI

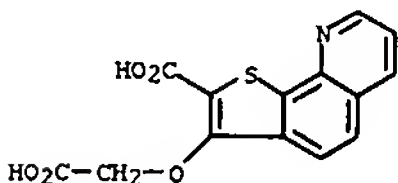


AB The title compds. [1; X = each (un)substituted CH₂ or NH, S; Y = each (un)substituted CH₂ or NH, a bond; provided that when X is S, Y is a bond, and further provided that X and Y are not simultaneously (un)substituted NH; ring C = each (un)substituted fused C6-16 aryl or fused heteroaryl, fused C3-10 cycloalkyl, fused C3-10 cycloalkenyl, fused heterocyclyl, or fused heterocycloalkenyl; R1 = each (un)substituted C6-16 aryl or heteroaryl, C3-16 cycloalkyl or halocycloalkyl, C3-10 cycloalkenyl, heterocyclyl, heterocycloalkenyl, CONH₂, or CO₂H, cyano, etc.; W = O, S; Z, Z' = (un)substituted NH, S, SO, SO₂, C1-12 alkylene, C2-12 alkenylene, C2-12 alkynylene, O(C1-12 alkylene), O(C2-12 alkenylene), O(C2-12 alkynylene), NH(C1-12 alkylene), NH(C2-12 alkenylene), NH(C2-12 alkynylene), S(C1-12 alkylene), S(C2-12 alkenylene), S(C2-12 alkynylene), SO(C2-12 alkylene), SO(C2-12 alkenylene), SO(C2-12 alkynylene), SO₂(C1-12 alkylene), SO₂(C2-12 alkenylene), or SO₂(C2-12 alkynylene); R2 = H, (un)substituted C1-20 alkyl optionally inserted with from 1-10 heteroatoms selected from N, O, and S, C1-20 haloalkyl, C3-20 cycloalkyl, C3-20 halocycloalkyl, C3-20 cycloalkenyl, heterocyclyl, heterocycloalkenyl, C2-20 alkenyl or C2-20 alkynyl, etc.] or salts thereof are prepared. These compds. such as thieno[3,2-b][1]benzothiophene, naphtho[1,2-b]thiophene, and thieno[3,2-c]quinoline derivs. modulate (e.g., inhibit) protein tyrosine phosphatase 1B (PTP1B) (no data) and are useful for treating type 2 diabetes, obesity, or metabolic disorders, or for increasing insulin sensitivity. Thus, cyclocondensation of Me thioglycolate with

L3 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

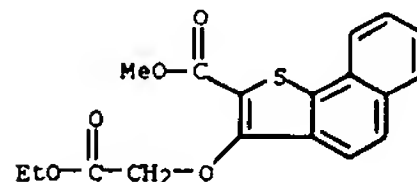


RN 892127-68-3 CAPLUS
CN Thieno[3,2-h]quinoline-2-carboxylic acid, 3-(carboxymethoxy)- (9CI) (CA INDEX NAME)

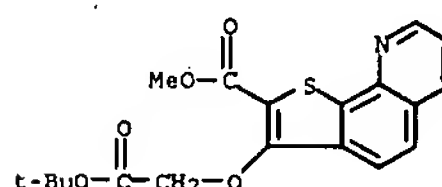


L3 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
2-chlorobenzo[b]thiophene-3-carboxylic acid Me ester in the presence of sodium tert-butoxide in DMF gave 61% 1-hydroxy-3,8-dithiacyclopenta[a]indene-2-carboxylic acid Me ester which underwent etherification with tert-Bu bromoacetate in the presence of sodium tert-butoxide in DMF at 60° for 16 h (86% yield) followed by sapon. using LiOH in aq. THF and acidification with 1 N HCl to give 92% 3,8-dithiacyclopenta[a]indene-2-carboxylic acid (thieno[3,2-b][1]benzothiophene) deriv. (II).
IT 881033-93-8P, 3-[(Ethoxycarbonyl)methoxy]naphtho[1,2-b]thiophene-2-carboxylic acid methyl ester 892127-72-9P, 3-[(tert-Butoxycarbonyl)methoxy]thieno[3,2-h]quinoline-2-carboxylic acid methyl ester
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of tricyclic fused thiophene derivs. as

protein tyrosine phosphatase 1B (PTP1B) modulators)
RN 881033-93-8 CAPLUS
CN Naphtho[1,2-b]thiophene-2-carboxylic acid, 3-(2-ethoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



RN 892127-72-9 CAPLUS
CN Thieno[3,2-h]quinoline-2-carboxylic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-, methyl ester (9CI) (CA INDEX NAME)



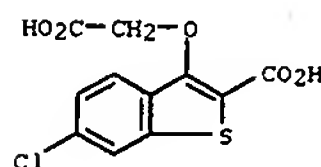
IT 881033-59-6P, 3-Carboxymethoxynaphtho[1,2-b]thiophene-2-carboxylic acid 892127-68-3P, 3-Carboxymethoxythieno[3,2-h]quinoline-2-carboxylic acid
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of tricyclic fused thiophene derivs. as protein tyrosine phosphatase 1B (PTP1B) modulators)
RN 881033-59-6 CAPLUS
CN Naphtho[1,2-b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)- (9CI) (CA INDEX NAME)

L3 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:156930 CAPLUS
DOCUMENT NUMBER: 144:343066
TITLE: Bicyclic and tricyclic thiophenes as protein tyrosine phosphatase 1B inhibitors
AUTHOR(S): Moretto, A. F.; Kirincich, S. J.; Xu, W. X.; Smith, M. J.; Wan, Z.-K.; Wilson, D. P.; Follows, B. C.; Binnun, E.; Joseph-McCarthy, D.; Foreman, K.; Erbe, D. V.; Zhang, Y. L.; Tam, S. K.; Tam, S. Y.; Lee, J.
CORPORATE SOURCE: Chemical and Screening Science, Wyeth Research, Cambridge, MA, 02140, USA
SOURCE: Bioorganic & Medicinal Chemistry (2006), 14(7), 2162-2177
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 144:343066

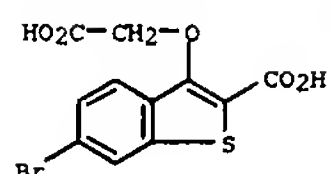
AB A novel pyridothiophene inhibitor of PTP1B was discovered by rational screening of phosphotyrosine mimics at high micromolar concns. The potency of this lead compound has been improved significantly by medicinal chemical guided by x-ray crystallog. and mol. modeling. Excellent consistency has been observed between structure-activity relationships and structural information from PTP1B-inhibitor complexes.

IT 863904-15-8P, 3-Carboxymethoxy-6-chlorobenzo[b]thiophene-2-carboxylic acid 863904-19-2P, 6-Bromo-3-carboxymethoxybenzo[b]thiophene-2-carboxylic acid 863904-27-2P, 3-(1-Carboxyethoxy)-6-chlorobenzo[b]thiophene-2-carboxylic acid 863904-31-8P, 3-(Carboxyfluoromethoxy)-6-chlorobenzo[b]thiophene-2-carboxylic acid 863904-47-6P, 3-Carboxymethoxy-6-phenylbenzo[b]thiophene-2-carboxylic acid 863904-59-0P, 3-Carboxymethoxy-6-thiophen-2-ylbenzo[b]thiophene-2-carboxylic acid 863904-63-6P, 3-Carboxymethoxy-6-(4-hydroxyphenyl)benzo[b]thiophene-2-carboxylic acid 863905-86-6P, 3-Carboxymethoxy-6-(5-methyl-1-phenyl-1H-pyrazol-3-yl)carbamoylbenzo[b]thiophene-2-carboxylic acid 863906-09-6P, 3-Carboxymethoxy-7-chlorobenzo[b]thiophene-2-carboxylic acid 863906-15-4P, 3-Carboxymethoxy-7-methylbenzo[b]thiophene-2-carboxylic acid 881033-59-6P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(bicyclic and tricyclic thiophenes as protein tyrosine phosphatase 1B inhibitors)
RN 863904-15-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-chloro- (9CI) (CA INDEX NAME)

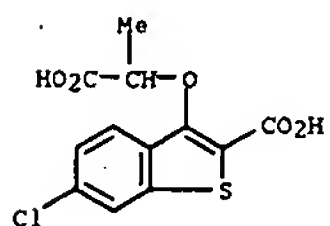


RN 863904-19-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-bromo-3-(carboxymethoxy)- (9CI) (CA INDEX NAME)

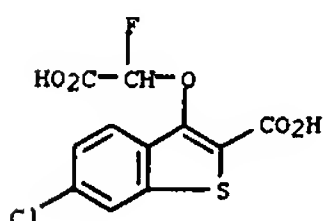
L3 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



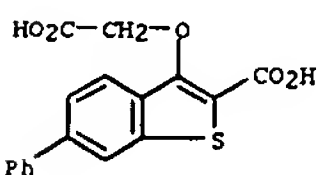
RN 863904-27-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(1-carboxyethoxy)-6-chloro- (9CI)
(CA INDEX NAME)



RN 863904-31-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxyfluoromethoxy)-6-chloro- (9CI)
(CA INDEX NAME)

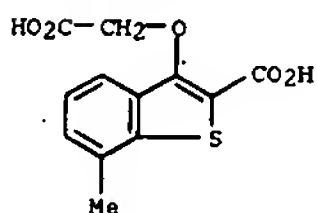


RN 863904-47-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-phenyl- (9CI)
(CA INDEX NAME)

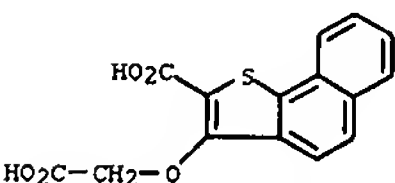


RN 863904-59-0 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(2-thienyl)- (9CI)
(CA INDEX NAME)

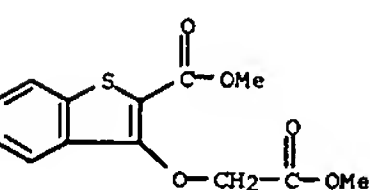
L3 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 881033-59-6 CAPLUS
CN Naphtho[1,2-b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)- (9CI)
(CA INDEX NAME)

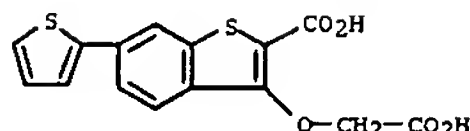


IT 58108-07-9P 148761-41-5P 863904-17-0P, 3-tert-Butoxycarbonylmethoxy-6-chlorobenzo[b]thiophene-2-carboxylic acid methyl ester 863904-29-4P, 6-Chloro-3-(ethoxycarbonylfluoromethoxy)benzo[b]thiophene-2-carboxylic acid methyl ester 863904-49-8P, 3-tert-Butoxycarbonylmethoxy-6-phenylbenzo[b]thiophene-2-carboxylic acid methyl ester 863904-61-4P, 3-tert-Butoxycarbonylmethoxy-6-thiophen-2-ylbenzo[b]thiophene-2-carboxylic acid methyl ester 863904-65-8P, 3-tert-Butoxycarbonylmethoxy-6-(4-hydroxyphenyl)benzo[b]thiophene-2-carboxylic acid methyl ester 863905-54-8P 863905-58-2P 863905-89-9P, 3-Methoxycarbonylmethoxy-6-(5-methyl-1-phenyl-1H-pyrazol-3-ylcarbonyl)benzo[b]thiophene-2-carboxylic acid methyl ester 863906-13-2P, 7-Chloro-3-methoxycarbonylmethoxybenzo[b]thiophene-2-carboxylic acid methyl ester 863906-18-7P, 3-Methoxycarbonylmethoxy-7-methylbenzo[b]thiophene-2-carboxylic acid methyl ester 881033-90-5P 881033-93-8P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(bicyclic and tricyclic thiophenes as protein tyrosine phosphatase 1B inhibitors)
RN 58108-07-9 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI)
(CA INDEX NAME)

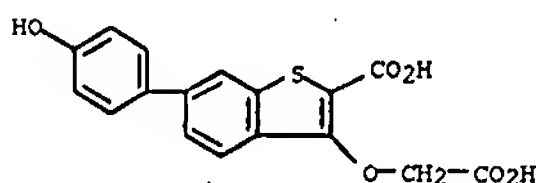


RN 148761-41-5 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)- (9CI)
(CA INDEX NAME)

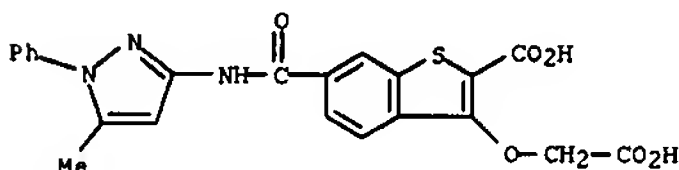
L3 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



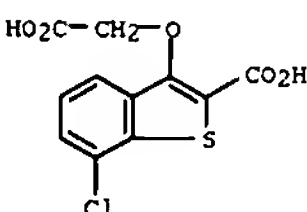
RN 863904-63-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(4-hydroxyphenyl)- (9CI)
(CA INDEX NAME)



RN 863905-86-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[[5-methyl-1-phenyl-1H-pyrazol-3-yl]amino]carbonyl- (9CI)
(CA INDEX NAME)

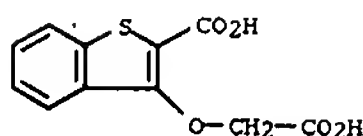


RN 863906-09-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-7-chloro- (9CI)
(CA INDEX NAME)

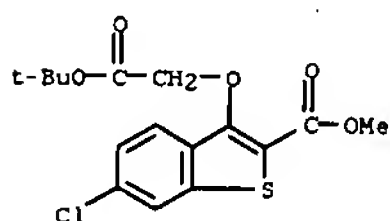


RN 863906-15-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-7-methyl- (9CI)
(CA INDEX NAME)

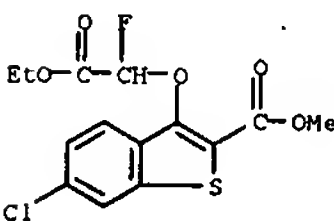
L3 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



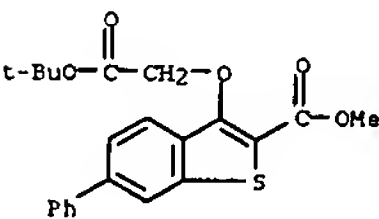
RN 863904-17-0 CAPLUS
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(CA INDEX NAME)



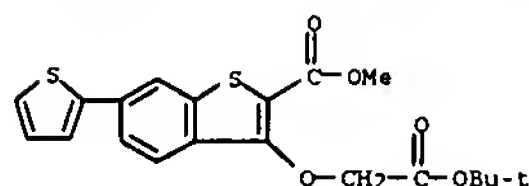
RN 863904-29-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-chloro-3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-, methyl ester (9CI)
(CA INDEX NAME)



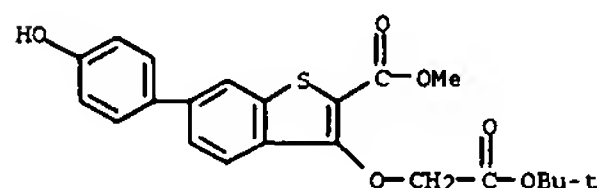
RN 863904-49-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6-phenyl-, methyl ester (9CI)
(CA INDEX NAME)



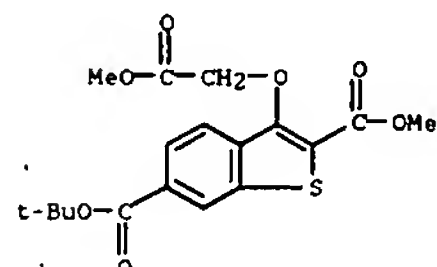
RN 863904-61-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6-(2-thienyl)-, methyl ester (9CI)
(CA INDEX NAME)



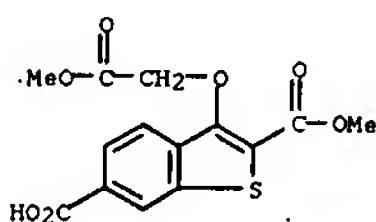
RN 863904-65-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6-(4-hydroxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)



RN 863905-54-8 CAPLUS
CN Benzo[b]thiophene-2,6-dicarboxylic acid, 3-(2-methoxy-2-oxoethoxy)-, 6-(1,1-dimethylethyl) 2-methyl ester (9CI) (CA INDEX NAME)

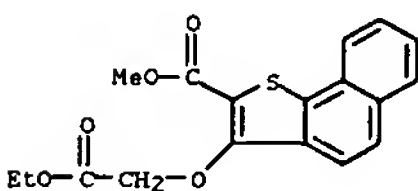


RN 863905-58-2 CAPLUS
CN Benzo[b]thiophene-2,6-dicarboxylic acid, 3-(2-methoxy-2-oxoethoxy)-, 2-methyl ester (9CI) (CA INDEX NAME)



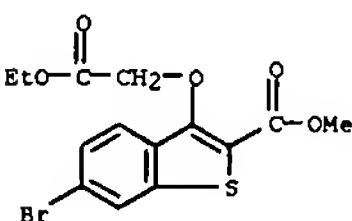
RN 863905-89-9 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-6-[(5-methyl-1-phenyl-1H-pyrazol-3-yl)amino]carbonyl-, methyl ester (9CI) (CA INDEX NAME)

L3 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Naphtho[1,2-b]thiophene-2-carboxylic acid, 3-(2-ethoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)

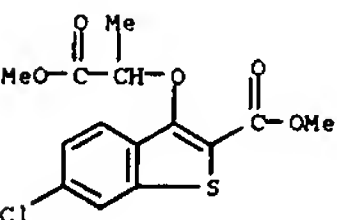


IT 863904-23-8P 863904-25-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(bicyclic and tricyclic thiophenes as protein tyrosine phosphatase 1B inhibitors).

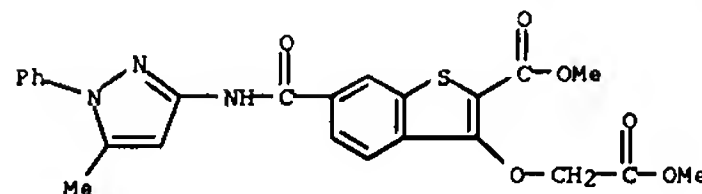
RN 863904-23-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-bromo-3-(2-ethoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



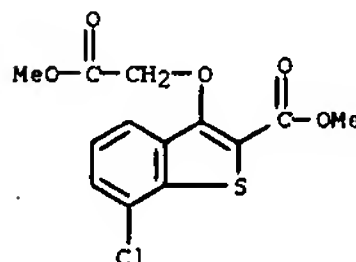
RN 863904-25-0 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-chloro-3-(2-methoxy-1-methyl-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



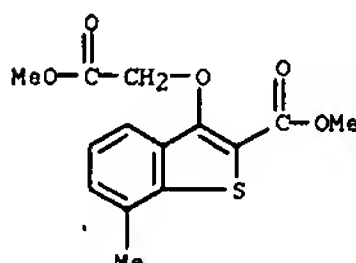
REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



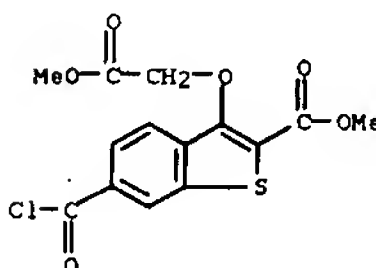
RN 863906-13-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 7-chloro-3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



RN 863906-18-7 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-7-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 881033-90-5 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-(chlorocarbonyl)-3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



RN 881033-93-8 CAPLUS

L3 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:983964 CAPLUS

DOCUMENT NUMBER: 143:266909

TITLE: Preparation of bicyclic fused thiophene inhibitors of protein tyrosine phosphatase 1B for treating diabetes and related diseases

INVENTOR(S): Lee, Jinbo; Kirincich, Steve J.; Smith, Michael J.; Wilson, Douglas P.; Follows, Bruce C.; Wan, Zhao-Kui; Joseph-Mccarthy, Diane M.; Erbe, David V.; Zhang, Yan-Ling; Xu, Weixin; Tam, Steve Y.

PATENT ASSIGNEE(S): Wyeth, USA

SOURCE: PCT Int. Appl., 114 pp.

CODEN: PIXXD2

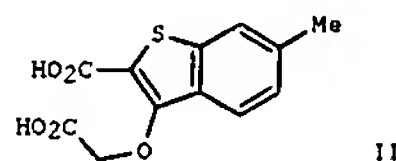
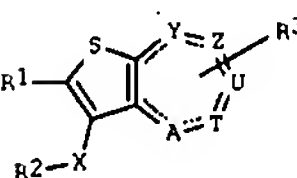
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

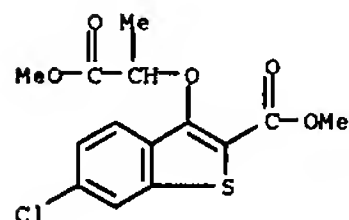
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005081960	A2	20050909	WO 2005-US5722	20050223
WO 2005081960	A3	20060330		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005203081	A1	20050915	US 2005-64390	20050223
PRIORITY APPLN. INFO.:			US 2004-547071P	P 20040225
OTHER SOURCE(S):		MARPAT 143:266909		
G1				



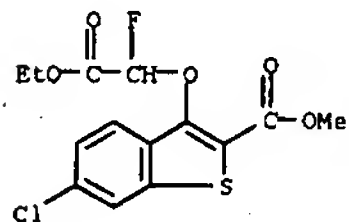
AB The invention provides a method for using a protein tyrosine phosphatase (PTPase) inhibitor (especially an inhibitor of PTPase 1B) described by the formula (I) [R1 = CO2H and derivs., 5- to 6-membered heterocyclyl, H, halo, CN, CONH2 and derivs.; R2 = CN, CO2H and derivs., CONH2 and derivs., etc.; X = (un)substituted alk(en/yn)ylene, O-alkylene, S(O)n-alkylene, etc.; n = 0-2; Y, Z, U, T, A = independently CH and derivs., N, S, O; one or two of Y, Z, U, T, A can be absent; each R3 = independently H, CN, OH, NH2, NO2, (un)substituted aryl, 5- to 8-membered heterocyclyl, alk(en/yn)yl, etc.] or a pharmaceutically acceptable salt or prodrug thereof for the treatment of diabetes, obesity, autoimmune diseases, etc. (no data). The invention also provides the preparation of fused thiophenes.

I. For example, II was prepared, in 47% yield, by cyclization of

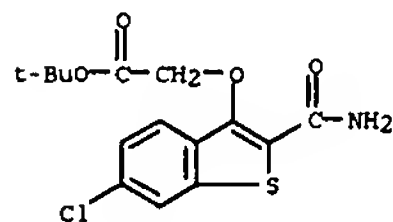
L3 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 2-chloro-6-methylnicotinic acid Me ester with mercaptoacetic acid Me ester, O-alkylation with bromoacetic acid tert-Bu ester and Boc-deprotection.
 IT 863904-25-0P, 6-Chloro-3-(1-methoxycarbonylethoxy)benzo[b]thiophene-2-carboxylic acid methyl ester 863904-29-4P, 6-Chloro-3-[(ethoxycarbonyl)(fluoromethoxy)benzo[b]thiophene-2-carboxylic acid methyl ester 863904-33-0P, [(2-Carbamoyl-6-chlorobenzo[b]thiophen-3-yl)oxy]acetic acid tert-butyl ester
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (drug candidate; preparation of bicyclic fused thiophene inhibitors of protein tyrosine phosphatase 1B for treating diabetes and related diseases)
 RN 863904-25-0 CAPLUS
 CN Benzo[b]thiophene-2-carboxylic acid, 6-chloro-3-(2-methoxy-1-methyl-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



RN 863904-29-4 CAPLUS
 CN Benzo[b]thiophene-2-carboxylic acid, 6-chloro-3-(2-ethoxy-1-fluoro-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)

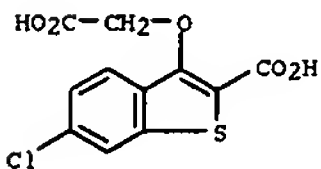


RN 863904-33-0 CAPLUS
 CN Acetic acid, [(2-(aminocarbonyl)-6-chlorobenzo[b]thien-3-yl)oxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

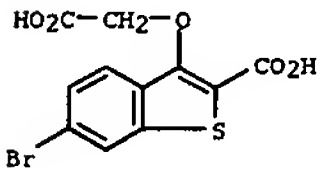


IT 863904-15-8P, 3-Carboxymethoxy-6-chlorobenzo[b]thiophene-2-

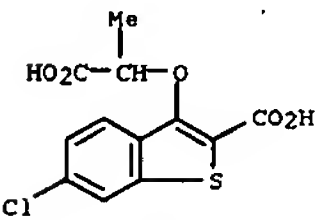
L3 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 863906-09-6P, 3-Carboxymethoxy-7-chlorobenzo[b]thiophene-2-carboxylic acid 863906-15-4P, 3-Carboxymethoxy-7-methylbenzo[b]thiophene-2-carboxylic acid 863906-20-1P, 3-Carboxymethoxy-6-[2-oxo-2-(piperidin-1-yl)ethyl]benzo[b]thiophene-2-carboxylic acid
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (drug candidate; prepn. of bicyclic fused thiophene inhibitors of protein tyrosine phosphatase 1B for treating diabetes and related diseases)
 RN 863904-15-8 CAPLUS
 CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-chloro- (9CI) (CA INDEX NAME)



RN 863904-19-2 CAPLUS
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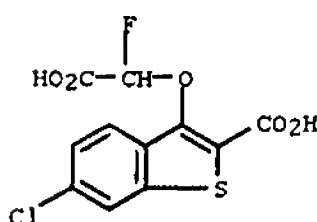
RN 863904-27-2 CAPLUS
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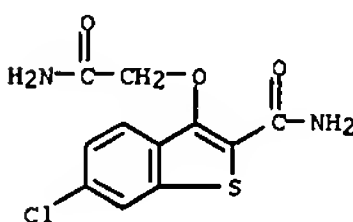
RN 863904-31-8 CAPLUS
 CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxyfluoromethoxy)-6-chloro- (9CI) (CA INDEX NAME)

L3 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
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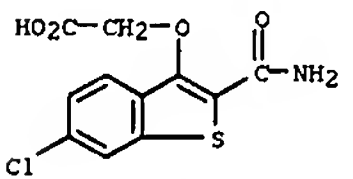
L3 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



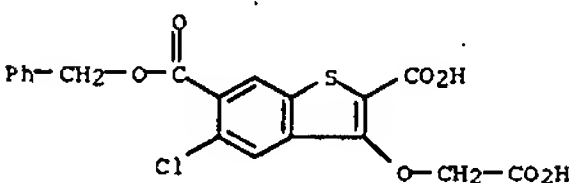
RN 863904-35-2 CAPLUS
 CN Benzo[b]thiophene-2-carboxamide, 3-(2-amino-2-oxoethoxy)-6-chloro- (9CI) (CA INDEX NAME)



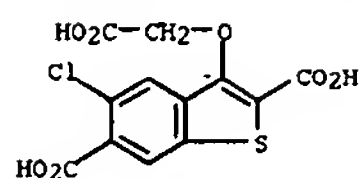
RN 863904-37-4 CAPLUS
 CN Acetic acid, [(2-(aminocarbonyl)-6-chlorobenzo[b]thien-3-yl)oxy]- (9CI) (CA INDEX NAME)



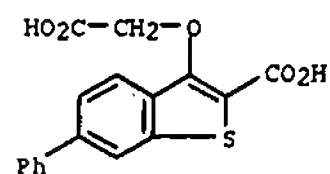
RN 863904-39-6 CAPLUS
 CN Benzo[b]thiophene-2,6-dicarboxylic acid, 3-(carboxymethoxy)-5-chloro-, 6-(phenylmethyl) ester (9CI) (CA INDEX NAME)



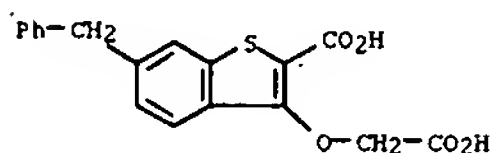
RN 863904-45-4 CAPLUS
 CN Benzo[b]thiophene-2,6-dicarboxylic acid, 3-(carboxymethoxy)-5-chloro- (9CI) (CA INDEX NAME)



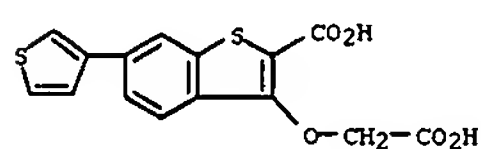
RN 863904-47-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-phenyl- (9CI) (CA INDEX NAME)



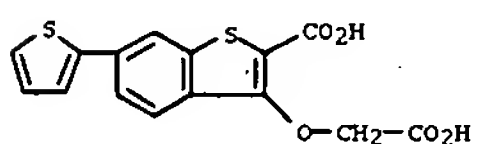
RN 863904-51-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 863904-55-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(3-thienyl)- (9CI) (CA INDEX NAME)

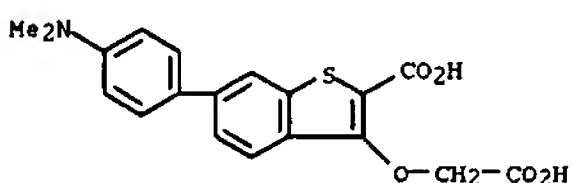


RN 863904-59-0 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(2-thienyl)- (9CI) (CA INDEX NAME)

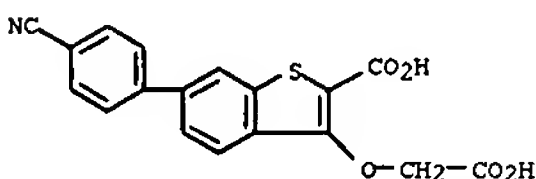


RN 863904-63-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(4-

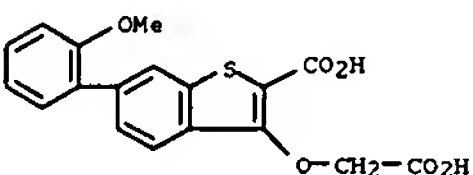
RN 863904-83-0 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[4-(dimethylamino)phenyl]- (9CI) (CA INDEX NAME)



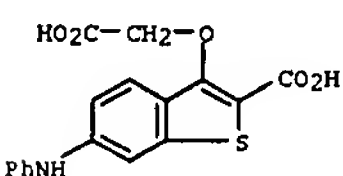
RN 863904-87-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(4-cyanophenyl)- (9CI) (CA INDEX NAME)



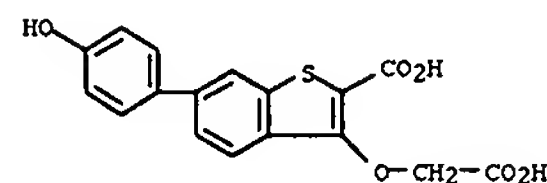
RN 863904-91-0 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)



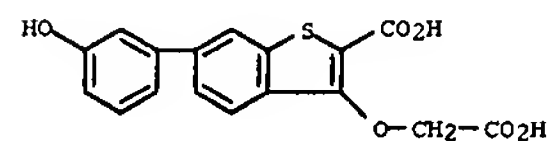
RN 863904-95-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(phenylamino)- (9CI) (CA INDEX NAME)



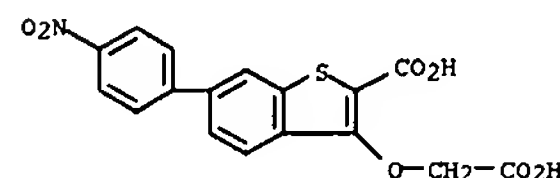
RN 863904-99-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(1-naphthalenyl)- (9CI) (CA INDEX NAME)



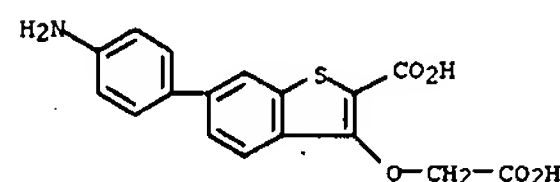
RN 863904-67-0 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(3-hydroxyphenyl)- (9CI) (CA INDEX NAME)



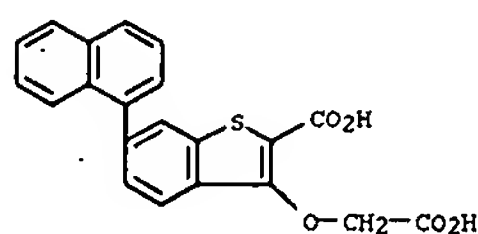
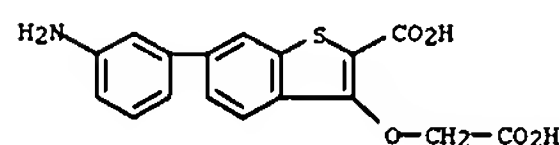
RN 863904-71-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



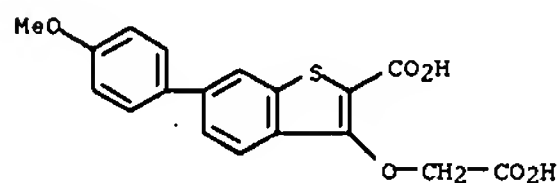
RN 863904-75-0 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-(4-aminophenyl)-3-(carboxymethoxy)- (9CI) (CA INDEX NAME)



RN 863904-79-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-(3-aminophenyl)-3-(carboxymethoxy)- (9CI) (CA INDEX NAME)

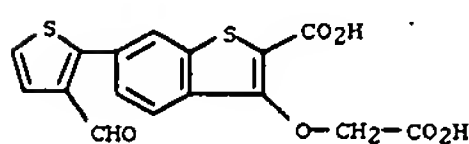


RN 863905-03-7 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(4-methoxyphenyl)-, dilithium salt (9CI) (CA INDEX NAME)

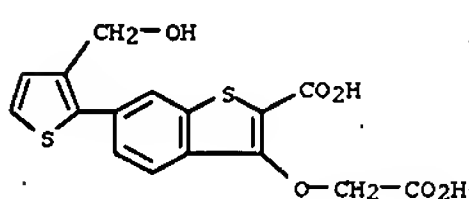


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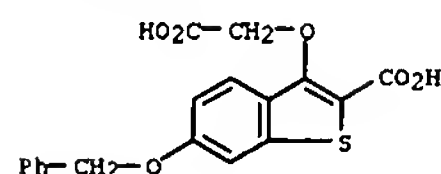
RN 863905-07-1 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(3-formyl-2-thienyl)- (9CI) (CA INDEX NAME)



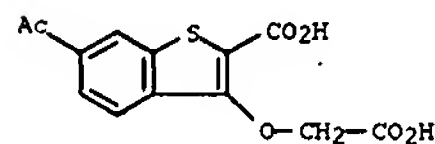
RN 863905-12-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[3-(hydroxymethyl)-2-thienyl]- (9CI) (CA INDEX NAME)



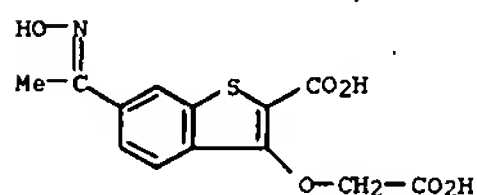
RN 863905-20-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(phenylmethoxy)- (9CI) (CA INDEX NAME)



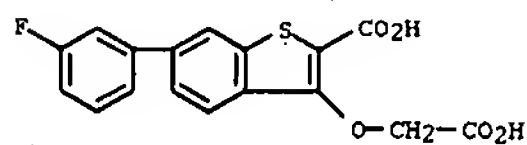
RN 863905-35-5 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-(3-(benzyloxymethyl)-2-oxo-2H-chromen-6-yl)-3-(carboxymethoxy)- (9CI) (CA INDEX NAME)



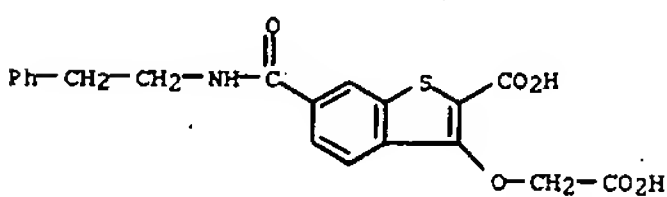
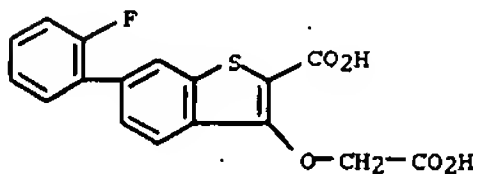
RN 863905-39-9 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[[1-(hydroxyimino)ethyl]- (9CI) (CA INDEX NAME)



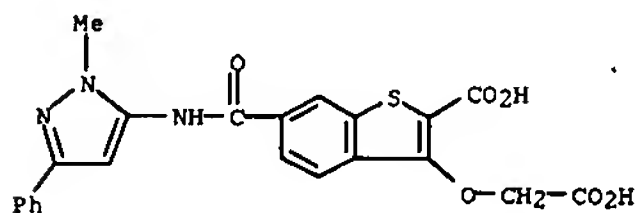
RN 863905-43-5 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(3-fluorophenyl)- (9CI) (CA INDEX NAME)



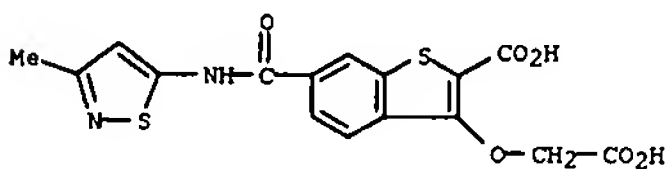
RN 863905-45-7 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-(2-fluorophenyl)- (9CI) (CA INDEX NAME)



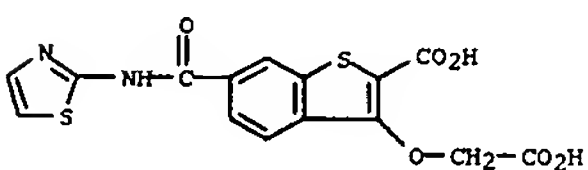
RN 863905-74-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[[1-(1-methyl-3-phenyl-1H-pyrazol-5-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 863905-78-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[[1-(3-methyl-5-isothiazolyl)amino]carbonyl]- (9CI) (CA INDEX NAME)

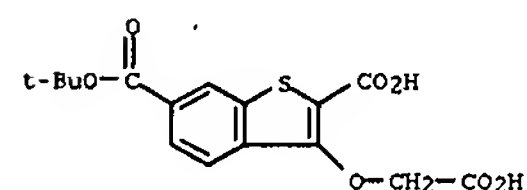


RN 863905-82-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[[1-(2-thiazolylamino)carbonyl]- (9CI) (CA INDEX NAME)

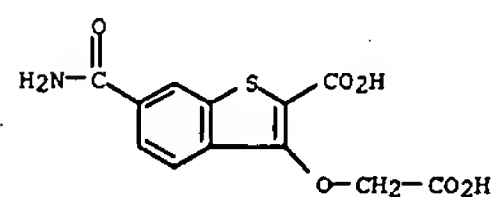


RN 863905-86-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[[1-(5-methyl-1-phenyl-1H-pyrazol-3-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)

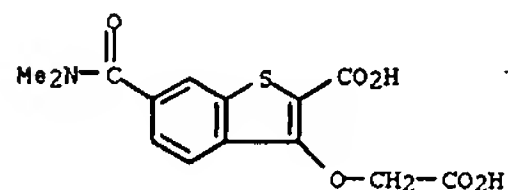
RN 863905-49-1 CAPLUS
CN Benzo[b]thiophene-2,6-dicarboxylic acid, 3-(carboxymethoxy)-, 6-(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



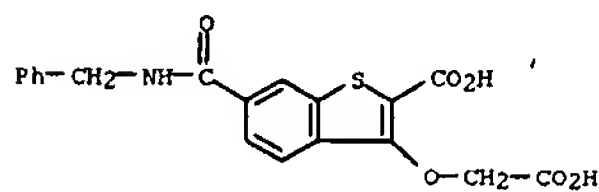
RN 863905-56-0 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-(aminocarbonyl)-3-(carboxymethoxy)- (9CI) (CA INDEX NAME)



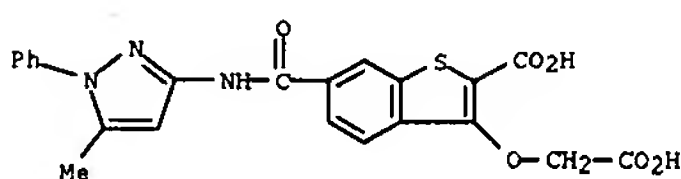
RN 863905-62-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[[dimethylamino]carbonyl]- (9CI) (CA INDEX NAME)



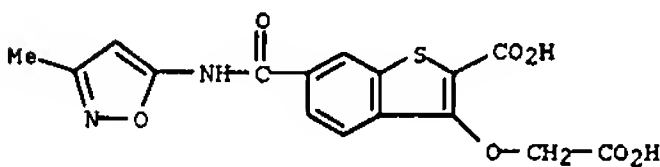
RN 863905-66-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[[1-(phenylmethyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



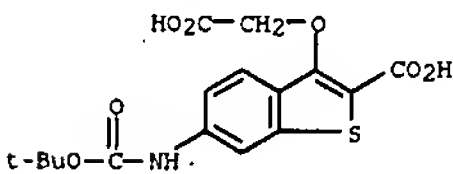
RN 863905-70-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[[1-(2-phenylethyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



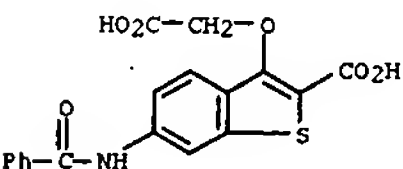
RN 863905-91-3 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[[1-(3-methyl-5-isoxazolyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



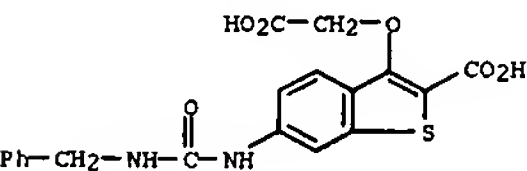
RN 863905-95-7 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[[1-(1,1-dimethylethoxy)carbonyl]amino]- (9CI) (CA INDEX NAME)



RN 863905-99-1 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-(benzoylamino)-3-(carboxymethoxy)- (9CI) (CA INDEX NAME)

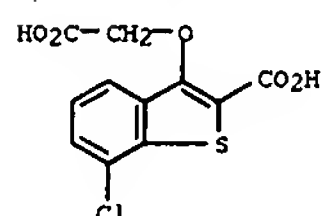


RN 863906-05-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[[1-(phenylmethyl)amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

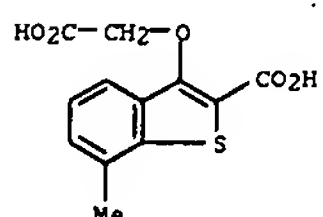


L3 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

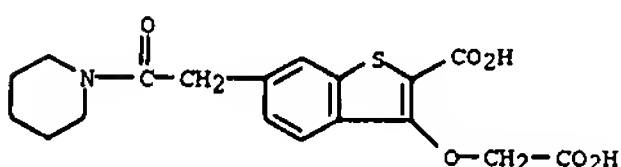
RN 863906-09-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-7-chloro- (9CI)
(CA INDEX NAME)



RN 863906-15-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-7-methyl- (9CI)
(CA INDEX NAME)

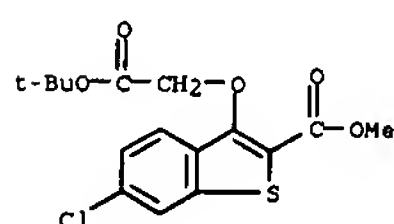


RN 863906-20-1 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)-6-[2-oxo-2-(1-piperidinyl)ethyl]- (9CI) (CA INDEX NAME)

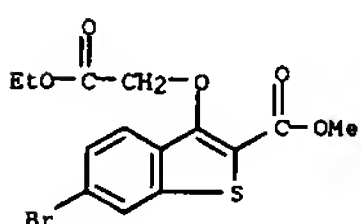


IT 863904-17-0P, 3-[(tert-Butoxycarbonyl)methoxy]-6-chlorobenzo[b]thiophene-2-carboxylic acid methyl ester
863904-23-8P, 6-Bromo-3-[(ethoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester 863904-43-2P,
5-Chloro-3-[(ethoxycarbonyl)methoxy]benzo[b]thiophene-2,6-dicarboxylic acid 6-benzyl ester 2-methyl ester 863904-49-8P,
3-[(tert-Butoxycarbonyl)methoxy]-6-phenylbenzo[b]thiophene-2-carboxylic acid methyl ester 863904-53-4P, 6-Benzyl-3-[(tert-butoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester 863904-57-8P, 3-[(tert-Butoxycarbonyl)methoxy]-6-(thiophen-3-yl)benzo[b]thiophene-2-carboxylic acid methyl ester 863904-61-4P,
3-[(tert-Butoxycarbonyl)methoxy]-6-(thiophen-2-yl)benzo[b]thiophene-2-carboxylic acid methyl ester 863904-65-8P, 3-[(tert-Butoxycarbonyl)methoxy]-6-(4-hydroxyphenyl)benzo[b]thiophene-2-carboxylic acid methyl ester 863904-69-2P, 3-[(tert-Butoxycarbonyl)methoxy]-6-(3-hydroxyphenyl)benzo[b]thiophene-2-carboxylic acid methyl ester 863904-73-8P, 3-[(ethoxycarbonyl)methoxy]-6-(4-nitrophenyl)benzo[b]thiophene-2-carboxylic acid methyl ester

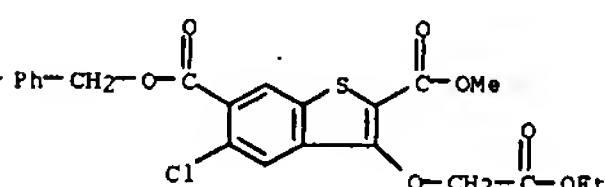
L3 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
zo[b]thiophene-2-carboxylic acid methyl ester 863906-26-7P,
3-[(Methoxycarbonyl)methoxy]-6-[2-oxo-2-(piperidin-1-yl)ethyl]benzo[b]thiophene-2-carboxylic acid methyl ester
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of bicyclic fused thiophene inhibitors of protein tyrosine phosphatase 1B for treating diabetes and related diseases)
RN 863904-17-0 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-chloro-3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 863904-23-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-bromo-3-(2-ethoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



RN 863904-43-2 CAPLUS
CN Benzo[b]thiophene-2,6-dicarboxylic acid, 5-chloro-3-(2-ethoxy-2-oxoethoxy)-, 2-methyl 6-(phenylmethyl) ester (9CI) (CA INDEX NAME)

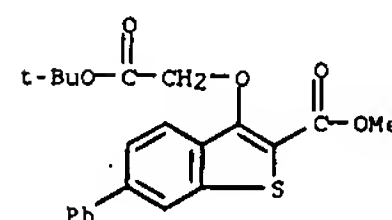


RN 863904-49-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6-phenyl-, methyl ester (9CI) (CA INDEX NAME)

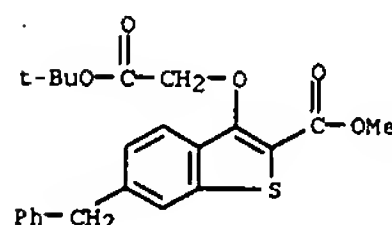
L3 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

863904-77-2P, 6-(4-Aminophenyl)-3-[(ethoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester 863904-81-8P,
6-(3-Aminophenyl)-3-[(tert-butoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester 863904-85-2P, 6-(4-Dimethylaminophenyl)-3-[(ethoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester 863904-89-6P, 3-[(tert-Butoxycarbonyl)methoxy]-6-(4-cyanophenyl)benzo[b]thiophene-2-carboxylic acid methyl ester 863904-93-2P, 3-[(ethoxycarbonyl)methoxy]-6-(2-methoxyphenyl)benzo[b]thiophene-2-carboxylic acid methyl ester 863904-97-6P, 3-[(tert-Butoxycarbonyl)methoxy]-6-phenylaminobenzo[b]thiophene-2-carboxylic acid methyl ester 863905-01-5P, 3-[(tert-Butoxycarbonyl)methoxy]-6-(naphthalen-1-yl)benzo[b]thiophene-2-carboxylic acid methyl ester 863905-05-9P,
3-[(tert-Butoxycarbonyl)methoxy]-6-(4-methoxyphenyl)benzo[b]thiophene-2-carboxylic acid methyl ester 863905-10-6P, 3-[(ethoxycarbonyl)methoxy]-6-[3-(formyl)thiophen-2-yl]benzo[b]thiophene-2-carboxylic acid methyl ester 863905-14-0P, 3-[(ethoxycarbonyl)methoxy]-6-[3-(hydroxymethyl)thiophen-2-yl]benzo[b]thiophene-2-carboxylic acid methyl ester 863905-33-3P,
6-Benzyl-3-[(tert-butoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid tert-butyl ester 863905-37-7P,
6-Acetyl-3-[(tert-butoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester 863905-41-3P, 3-[(tert-Butoxycarbonyl)methoxy]-6-(1-hydroxyiminoethyl)benzo[b]thiophene-2-carboxylic acid methyl ester 863905-47-9P, 3-[(tert-Butoxycarbonyl)methoxy]-6-(2-fluorophenyl)benzo[b]thiophene-2-carboxylic acid methyl ester 863905-54-8P, 3-[(Methoxycarbonyl)methoxy]benzo[b]thiophene-2,6-dicarboxylic acid 6-tert-butyl ester 2-methyl ester 863905-58-2P,
3-[(Methoxycarbonyl)methoxy]benzo[b]thiophene-2,6-dicarboxylic acid 2-methyl ester 863905-60-6P, 6-Carbamoyl-3-[(methoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester 863905-64-0P, 6-(Dimethylcarbamoyl)-3-[(methoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester 863905-68-4P, 6-(Benzylcarbamoyl)-3-[(methoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester 863905-72-0P,
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6-Benzoylamino-3-[(methoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester 863906-07-4P, 6-(3-Benzylureido)-3-[(methoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester 863906-13-2P, 7-Chloro-3-[(methoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester 863906-18-7P,
3-[(Methoxycarbonyl)methoxy]-7-methylbenzo[b]thiophene-2-carboxylic acid methyl ester 863906-22-3P, 6-Formyl-3-[(methoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylic acid methyl ester 863906-24-5P, 6-(2,2-Dibromovinyl)-3-[(methoxycarbonyl)methoxy]ben

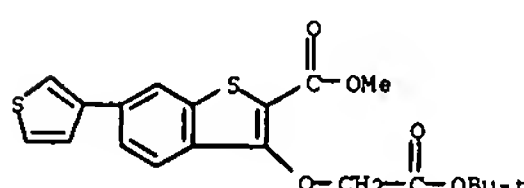
L3 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



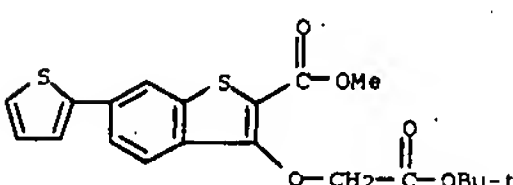
RN 863904-53-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)



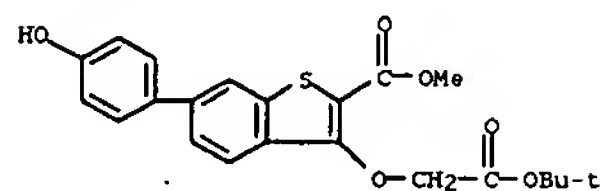
RN 863904-57-8 CAPLUS
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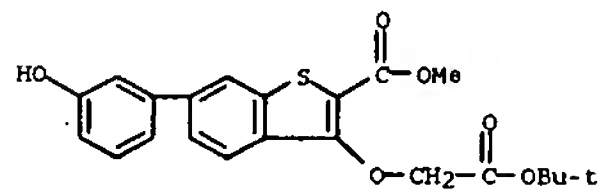
RN 863904-61-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6-(2-thienyl)-, methyl ester (9CI) (CA INDEX NAME)



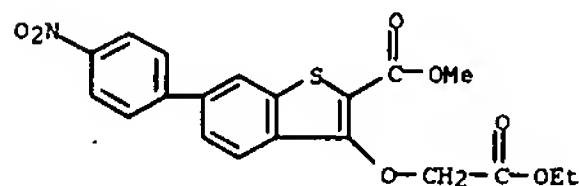
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CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6-(4-hydroxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)



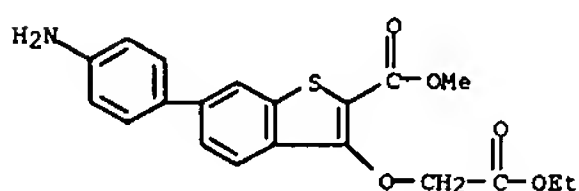
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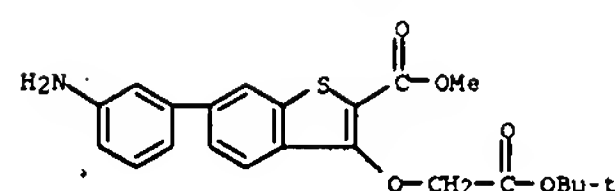
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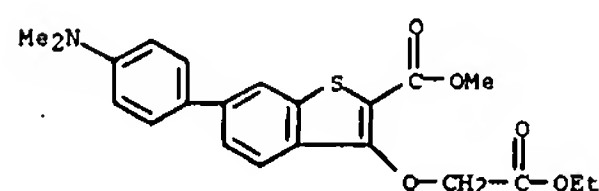
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CN Benzo[b]thiophene-2-carboxylic acid, 6-(4-aminophenyl)-3-(2-ethoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



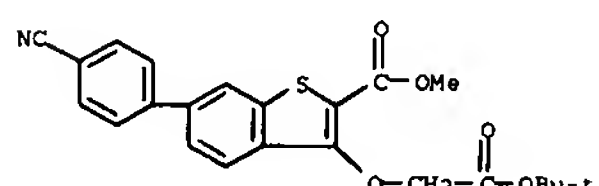
RN 863904-81-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-(3-aminophenyl)-3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-, methyl ester (9CI) (CA INDEX NAME)



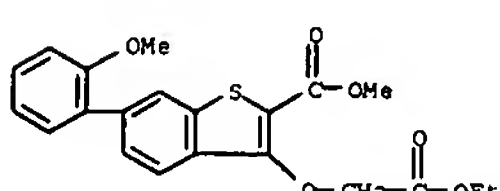
RN 863904-85-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-(4-(dimethylamino)phenyl)-3-(2-ethoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



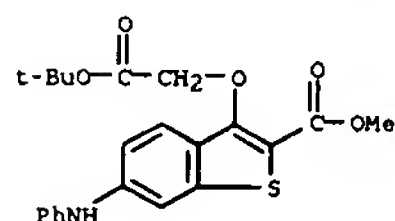
RN 863904-89-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-(4-cyanophenyl)-3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-, methyl ester (9CI) (CA INDEX NAME)



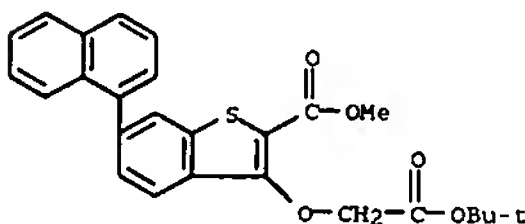
RN 863904-93-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-ethoxy-2-oxoethoxy)-6-(2-methoxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)



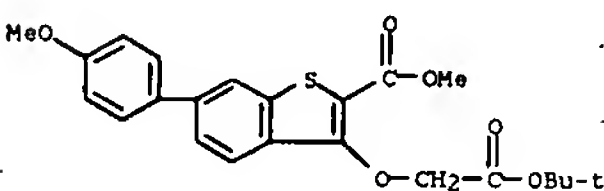
RN 863904-97-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6-(phenylamino)-, methyl ester (9CI) (CA INDEX NAME)



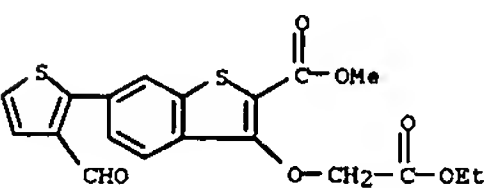
RN 863905-01-5 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6-(1-naphthalenyl)-, methyl ester (9CI) (CA INDEX NAME)



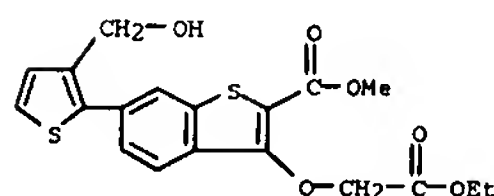
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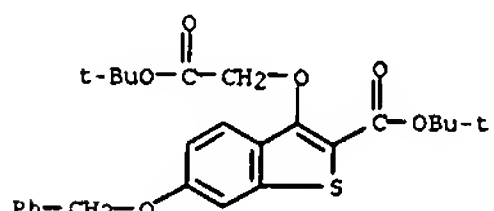
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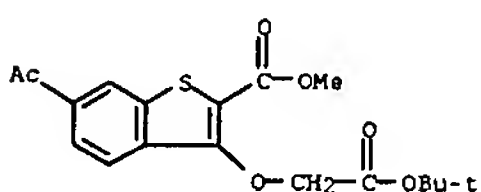
RN 863905-14-0 CAPLUS
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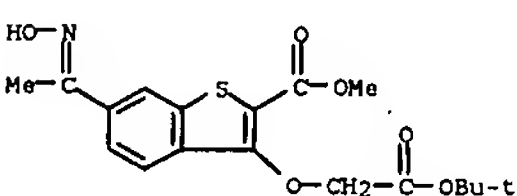
RN 863905-33-3 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6-(phenylmethoxy)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



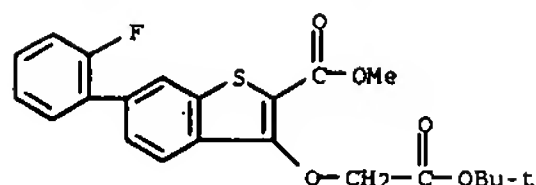
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CN Benzo[b]thiophene-2-carboxylic acid, 6-acetyl-3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-, methyl ester (9CI) (CA INDEX NAME)



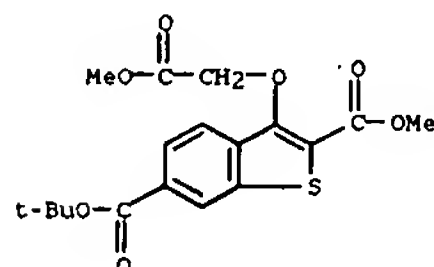
RN 863905-41-3 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6-[1-(hydroxyimino)ethyl]-, methyl ester (9CI) (CA INDEX NAME)



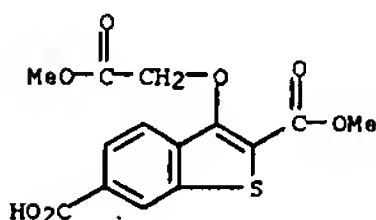
RN 863905-47-9 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6-(2-fluorophenyl)-, methyl ester (9CI) (CA INDEX NAME)



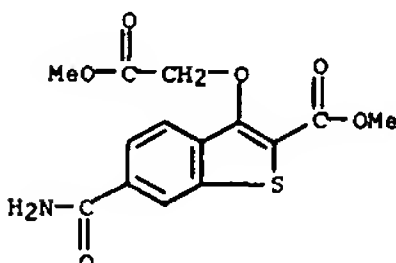
RN 863905-54-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-, 6-(1,1-dimethylethyl) 2-methyl ester (9CI) (CA INDEX NAME)



RN 863905-58-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-, 2-methyl ester (9CI) (CA INDEX NAME)

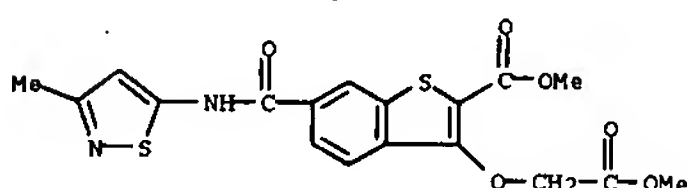


RN 863905-60-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-(aminocarbonyl)-3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)

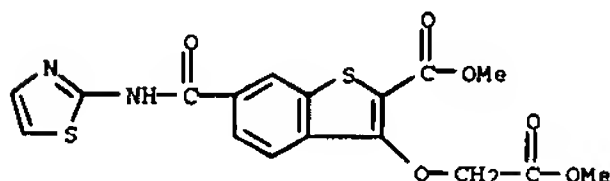


RN 863905-64-0 CAPLUS

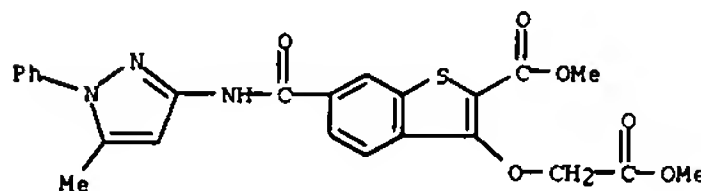
RN 863905-80-0 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-6-((3-methyl-5-isothiazolyl)amino)carbonyl)-, methyl ester (9CI) (CA INDEX NAME)



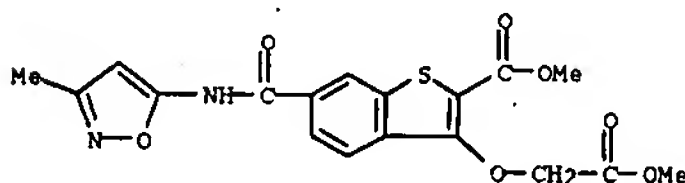
RN 863905-84-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-6-((2-thiazolylamino)carbonyl)-, methyl ester (9CI) (CA INDEX NAME)



RN 863905-89-9 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-6-(((5-methyl-1-phenyl-1H-pyrazol-3-yl)amino)carbonyl)-, methyl ester (9CI) (CA INDEX NAME)

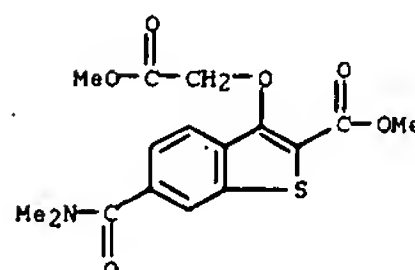


RN 863905-93-5 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-6-(((3-methyl-5-isoxazolyl)amino)carbonyl)-, methyl ester (9CI) (CA INDEX NAME)

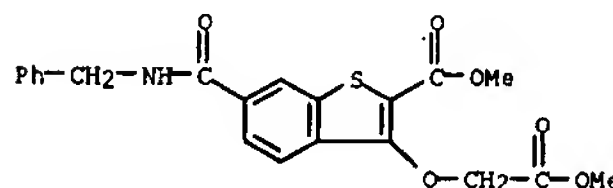


RN 863905-97-9 CAPLUS
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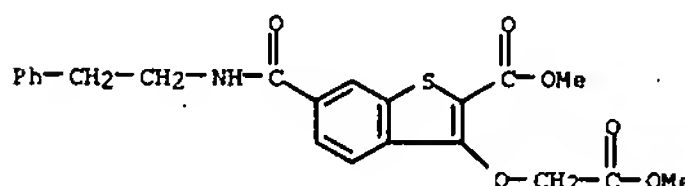
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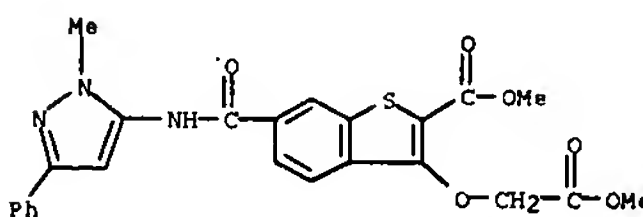
RN 863905-68-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-6-(((phenylmethyl)amino)carbonyl)-, methyl ester (9CI) (CA INDEX NAME)



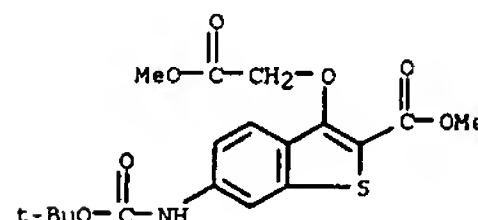
RN 863905-72-0 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-6-(((2-phenylethyl)amino)carbonyl)-, methyl ester (9CI) (CA INDEX NAME)



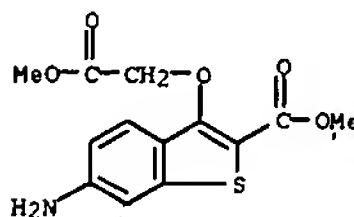
RN 863905-76-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-6-(((1-methyl-3-phenyl-1H-pyrazol-5-yl)amino)carbonyl)-, methyl ester (9CI) (CA INDEX NAME)



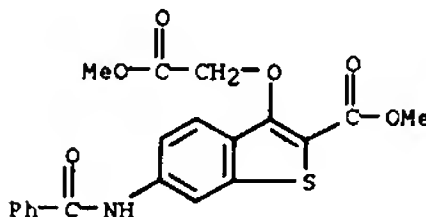
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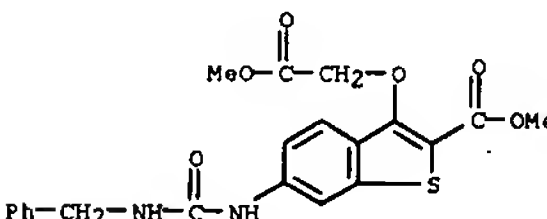
RN 863906-01-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-amino-3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



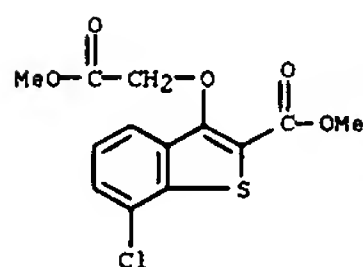
RN 863906-03-0 CAPLUS
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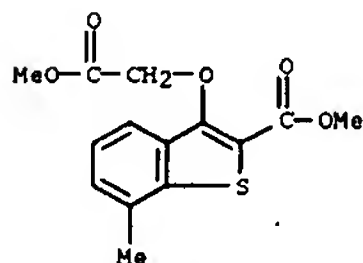
RN 863906-07-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-6-(((phenylmethyl)amino)carbonyl)amino]-, methyl ester (9CI) (CA INDEX NAME)



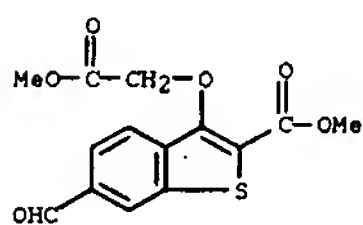
L3 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 863906-13-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 7-chloro-3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



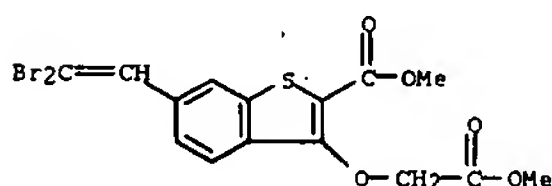
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CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-7-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 863906-22-3 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 6-formyl-3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



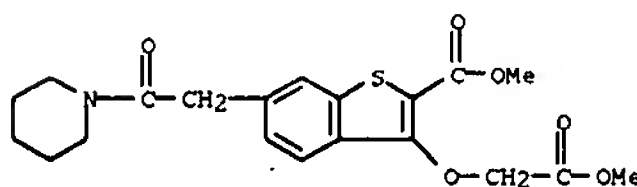
RN 863906-24-5 CAPLUS
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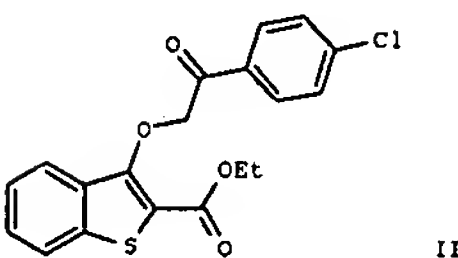
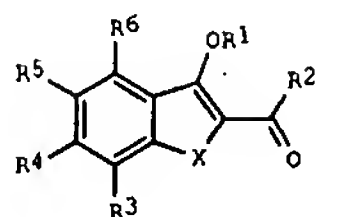
L3 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:453341 CAPLUS
DOCUMENT NUMBER: 143:7587
TITLE: Preparation of benzofuran and benzothiophene derivatives as glucose-stimulated insulin secretors useful in the treatment of diabetes and related diseases
INVENTOR(S): Moinet, Gerard; Leriche, Caroline; Kergoat, Micheline
PATENT ASSIGNEE(S): Merck Sante, Fr.
SOURCE: Fr. Demande, 48 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2862645	A1	20050527	FR 2003-13612	20031120
FR 2862645	B1	20070622		
AU 2004295029	A1	20050616	AU 2004-295029	20041026
CA 2546647	A1	20050616	CA 2004-2546647	20041026
WO 2005054225	A1	20050616	WO 2004-EP12075	20041026
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BR 2004016675	A	20070213	BR 2004-16675	20041026
JP 2007511552	T	20070510	JP 2006-540215	20041026
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US 2007078178	A1	20070405	US 2006-580033	20060519
PRIORITY APPLN. INFO.: FR 2003-13612 A 20031120				
WO 2004-EP12075 W 20041026				
OTHER SOURCE(S): CASREACT 143:7587; MARPAT 143:7587				
GI				

L3 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RN 863906-26-7 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-6-[2-oxo-2-(1-piperidinyl)ethyl]-, methyl ester (9CI) (CA INDEX NAME)



L3 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



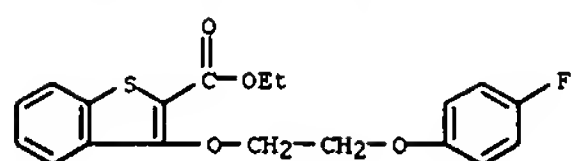
AB Title compds. I [wherein X = O, S; R1 = (un)substituted carboxyalkyl, alkoxyalkyl, arylalkoxyalkyl, etc.; R2 = OH and derivs., NH2 and derivs., aryloxy, etc.; R3, R4, R5, R6 = independently H, halo, OH, alkyl, alkoxy, CN, CF3, monoalkyl/dialkyl/amino, NO2] were prepared as antidiabetic agents for treating diseases associated with insulin resistance syndrome. For example, II was prepared by reacting thiosalicylic acid with Et bromoacetate, followed by cyclocondensation with 1-bromopiperidine. In an in vitro test, II, at 10⁻⁶ M, displayed a glucose-induced stimulation factor of insulin secretion of 189% at a dose of 8 mM glucose digested by the pancreatic exocrine tissue of rats. Thus, I and their compns. are used for treating hyperglycemia, diabetes, dyslipidemia, obesity, and microvascular and macrovascular complications arising from diabetes.

IT 852318-27-5P, Ethyl 3-[2-(4-Fluorophenoxy)ethoxy]benzo[b]thiophene-2-carboxylate 852318-29-7P, Ethyl 3-[2-(Phenoxyethoxy)benzo[b]thiophene-2-carboxylate 852318-30-0P, Ethyl 3-[2-(4-Cyanophenoxy)ethoxy]benzo[b]thiophene-2-carboxylate 852318-31-1P, Ethyl 3-[2-[4-(2-Methoxycarbonyl)ethoxy]ethoxy]benzo[b]thiophene-2-carboxylate 852318-32-2P, Ethyl 3-[2-(Naphthalen-1-yl)ethoxy]benzo[b]thiophene-2-carboxylate 852318-33-3P, Ethyl 3-[2-(2-Methoxyphenoxy)ethoxy]benzo[b]thiophene-2-carboxylate 852318-34-4P, Ethyl 3-[2-[(2,3-Dimethylphenyl)oxy]ethoxy]benzo[b]thiophene-2-carboxylate 852318-36-6P, Ethyl 3-(2-Hydroxy-3-phenoxypropoxy)benzo[b]thiophene-2-carboxylate 852318-37-7P, Ethyl 3-(3-Phenoxypropoxy)benzo[b]thiophene-2-carboxylate

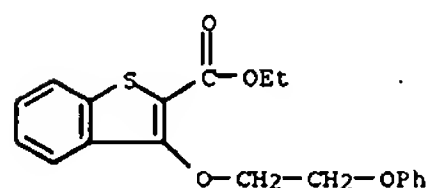
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(glucose-stimulated insulin secretory preparation of benzofuran and benzothiophene derivs. as antidiabetic agents)

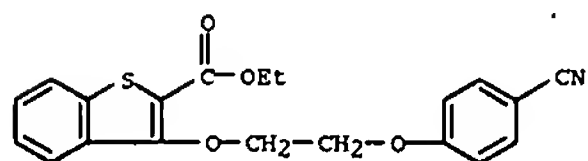
RN 852318-27-5 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(4-fluorophenoxy)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



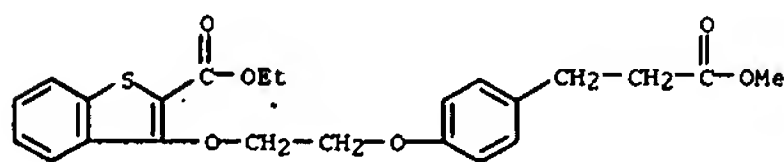
RN 852318-29-7 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-(4-fluorophenoxy)ethoxy)-, ethyl ester (9CI) (CA INDEX NAME)



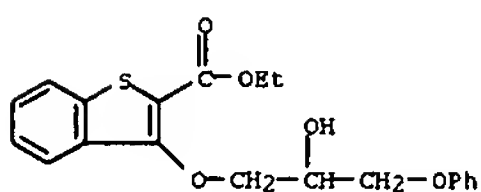
RN 852318-30-0 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(4-cyanophenoxy)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



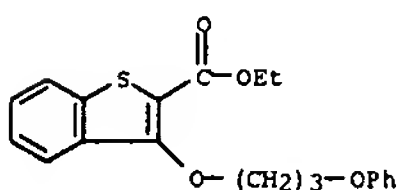
RN 852318-31-1 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(4-(3-methoxy-3-oxopropyl)phenoxy)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



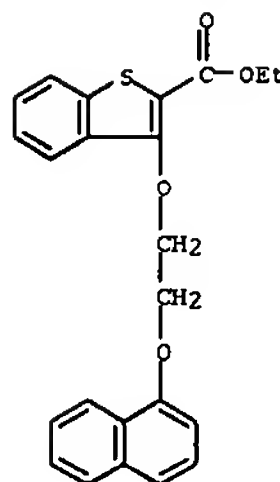
RN 852318-32-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(1-naphthalenyloxy)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



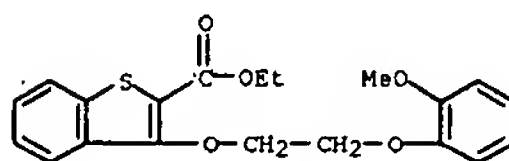
RN 852318-37-7 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(3-phenoxypropoxy)-, ethyl ester (9CI) (CA INDEX NAME)



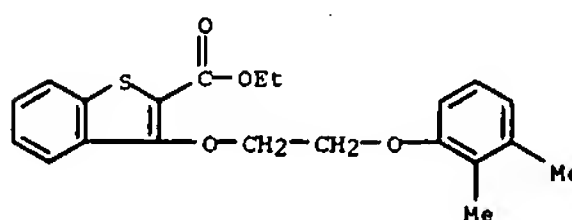
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



RN 852318-33-3 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(2-methoxyphenoxy)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



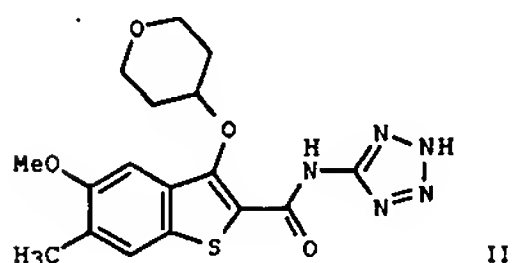
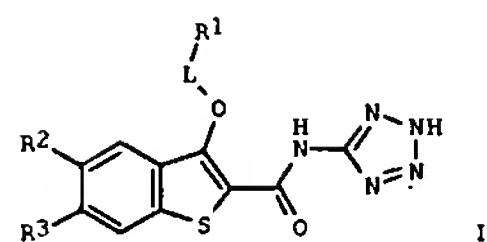
RN 852318-34-4 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-(2,3-dimethylphenoxy)ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



RN 852318-36-6 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-hydroxy-3-phenoxypropoxy)-, ethyl ester (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2004:1080895 CAPLUS
DOCUMENT NUMBER: 142:56321
TITLE: Preparation of N-tetrazolyl benzo[b]thiophenecarboxamides as phosphoinositide-3-kinase (PI3K) inhibitors for the treatment of cancer, inflammatory and cardiovascular diseases
INVENTOR(S): Connolly, Mike; Gogliotti, Rocco Dean; Lee, Helen Tsenwei; Plummer, Mark Stephen; Sexton, Karen Elaine; Visnick, Melean
PATENT ASSIGNEE(S): Warner-Lambert Company LLC, USA
SOURCE: PCT Int. Appl., 57 pp.
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004108713	A1	20041216	WO 2004-1B1783	20040524
WO 2004108713	A8	20051201		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2527573	A1	20041216	CA 2004-2527573	20040524
EP 1636210	A1	20060322	EP 2004-734574	20040524
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
BR 2004010913	A	20060627	BR 2004-10913	20040524
JP 2006526606	T	20061124	JP 2006-508419	20040524
US 2005020630	A1	20050127	US 2004-860524	20040603
PRIORITY APPLN. INFO.:			US 2003-476073P	P 20030605
			WO 2004-1B1783	W 20040524
OTHER SOURCE(S):		MARPAT 142:56321		
GI				

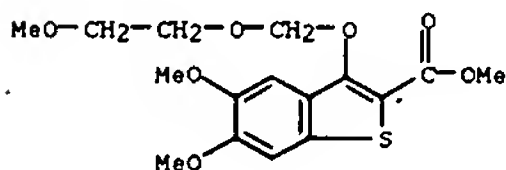


AB Title compds. I [wherein R1 = (un)substituted cycloalk(en)yl or 4/5/6-membered heterocycloalkyl; R2, R3 = Me or OMe; L = absence or alkylene; with some limitations, and pharmaceutically acceptable salts thereof] were prepared as phosphoinositide-3-kinase (PI3K) inhibitors. For example, benzo[b]thiophenecarboxamide II was synthesized in several steps starting from 3-methoxy-4-methylbenzaldehyde. I were tested in several biol. assays, and showed inhibitory activity against PI3K with IC50 (μM) values of 0.003-2.550 (0.024 for II). Therefore, I and their pharmaceutical compns. are useful in the treatment of diseases and conditions, including inflammatory diseases, cardiovascular diseases, and cancers.

IT 809281-92-3P 809281-93-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of N-tetrazolyl benzo[b]thiophenecarboxamides as phosphoinositide-3-kinase (PI3K) inhibitors)

RN 809281-92-3 CAPLUS

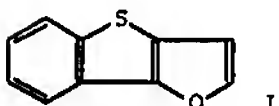
CN Benzo[b]thiophene-2-carboxylic acid, 5,6-dimethoxy-3-[(2-methoxyethoxy)methoxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 809281-93-4 CAPLUS

CN Benzo[b]thiophene-2-carboxylic acid, 5,6-dimethoxy-3-[(2-methoxyethoxy)methoxy]- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1994:217348 CAPLUS
DOCUMENT NUMBER: 120:217348
TITLE: Synthesis of [1]benzothieno[3,2-b]furan - a new fused benzoheterocyclic system
AUTHOR(S): Svoboda, Jiri; Nic, Miloslav; Palecek, Jaroslav
CORPORATE SOURCE: Dep. Org. Chem., Prague Inst. Chem. Technol., Prague, 166 28, Czech Rep.
SOURCE: Collection of Czechoslovak Chemical Communications (1993), 58(12), 2983-6
CODEN: CCCCAK; ISSN: 0010-0765
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 120:217348
GI

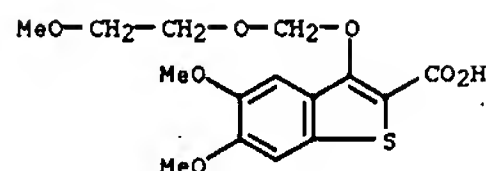
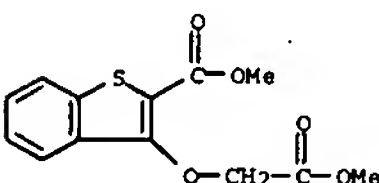


AB The reaction of Me thiosalicylate with excess Me chloroacetate in the presence of potassium carbonate gives Me 3-[(methoxycarbonyl)methoxy]benzo[b]thiophene-2-carboxylate which on cyclization by action of potassium tert-butoxide gives Me 3-hydroxy[1]benzothieno[3,2-b]furan-2-carboxylate. Its base catalyzed hydrolysis and decarboxylation forms [1]benzothieno[3,2-b]furan-2(2H)-one whose reduction with NaBH4 gives the title compound, I.

IT 58108-07-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

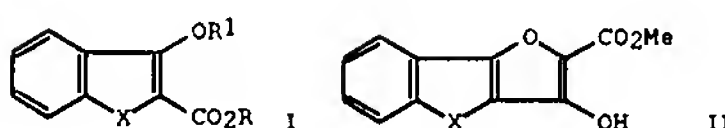
RN 58108-07-9 CAPLUS

CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 1993:472458 CAPLUS
DOCUMENT NUMBER: 119:72458
TITLE: Application of magnesium alkoxides to syntheses of benzoheterocyclic compounds
AUTHOR(S): Svoboda, Jiri; Nic, Miloslav; Palecek, Jaroslav
CORPORATE SOURCE: Dep. Org. Chem., Prague Inst. Chem. Technol., Prague, 166 28, Czech.
SOURCE: Collection of Czechoslovak Chemical Communications (1993), 58(3), 592-9
CODEN: CCCCAK; ISSN: 0010-0765
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 119:72458
GI

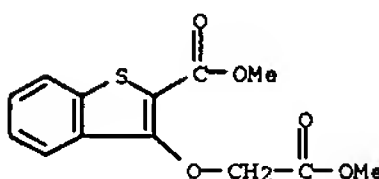


AB The Dieckmann condensations of Me [(2-methoxycarbonyl)phenyl]-X-acetates, 2-MeO2CC6H4XCH2CO2Me (X = O, S, SO2, NH, NMe), initiated by action of magnesium methoxide, ethoxide, isopropoxide and other basic reagents have been studied under various conditions. Whereas magnesium methoxide has comparable efficiency as sodium methoxide and potassium tert-butoxide in syntheses of the benzoheterocyclic compds. I (R1 = H), magnesium ethoxide gives I (R = Et, R1 = H, X = O) in a medium yield, and magnesium isopropoxide is quite inefficient in the condensation reaction. The alkylation of I (R = Me, R1 = H, X = O, S, NMe) with Me chloroacetate in the presence of sodium hydride in DMF gives I (R1 = CH2CO2Me) which, on action by potassium tert-butoxide, undergo the cyclization reaction to give esters II (X = S, NMe).

IT 58108-07-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and Dieckman condensation of)

RN 58108-07-9 CAPLUS

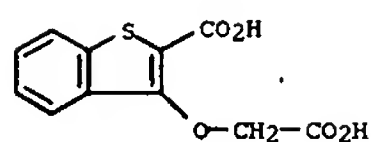
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



IT 148761-41-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

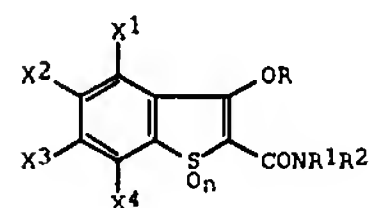
RN 148761-41-5 CAPLUS

CN Benzo[b]thiophene-2-carboxylic acid, 3-(carboxymethoxy)- (9CI) (CA INDEX NAME)

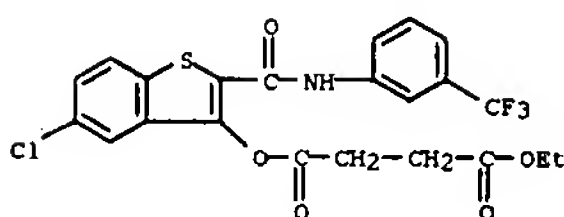


ACCESSION NUMBER: 1988:473311 CAPLUS
 DOCUMENT NUMBER: 109:73311
 TITLE: Preparation and formulation of 3-hydroxybenzo[b]thiophene-2-carboxamides as inhibitors of inflammation and other prostaglandin and leukotriene mediated diseases
 INVENTOR(S): Tischler, Allan N.; Durette, Philippe L.; Witzel, Bruce E.; Lanza, Thomas J., Jr.
 PATENT ASSIGNEE(S): Merck and Co., Inc., USA
 SOURCE: Brit. UK Pat. Appl., 28 pp.
 CODEN: BAXXDU
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

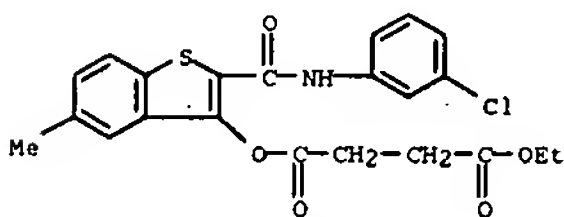
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2193961	A	19880224	GB 1987-19022	19870811
US 4800211	A	19890124	US 1986-897576	19860818
PRIORITY APPLN. INFO.:			US 1986-897576	A 19860818
OTHER SOURCE(S):		CASREACT 109:73311; MARPAT 109:73311		



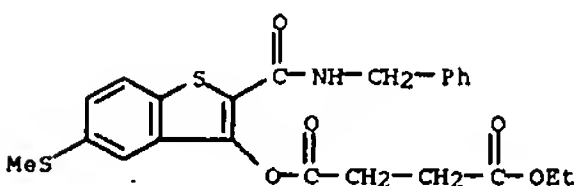
AB Title compds. I [R = H, alkyl, naphthyl, anthryl, cycloalkyl, haloalkyl, (un)substituted Ph, heteroaryl, benzyl, phenylalkenyl, phenylalkynyl, etc.; X1-X4 = R, cyano, NO2, NO, etc.; n = 0-2; R1, R2 = R, except than if R = H, Cl, R1 and R2 independently cannot be mono-, di-, tri-, or chloronitrophenyl; N1R2 = N-heterocyclyl] were prepared. To Me 5-chloro-2-mercaptobenzoate in MeOH was added NaOMe followed by N-[(3-chlorophenyl)methyl]chloroacetamide and the mixture refluxed to give I (X1, X3, X4 = H; X2 = Cl; R1 = H, R2 = 3-ClC6H4CH2; n = 0). In rat platelet activating factor-induced hyperalgesia, I (X1, X2, X3 = H; X4 = Me; R, R1 = H; R2 = 3-ClC6H4; n = 0) at 30 mg/kg, orally, gave 90% analgesia.
 IT 115690-78-3P 115690-79-4P 115690-81-8P
 115690-99-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as antiinflammatory)
 RN 115690-78-3 CAPLUS
 CN Butanedioic acid, 5-chloro-2-[[[3-(trifluoromethyl)phenyl]amino]carbonyl]benzo[b]thien-3-yl ethyl ester (9CI) (CA INDEX NAME)



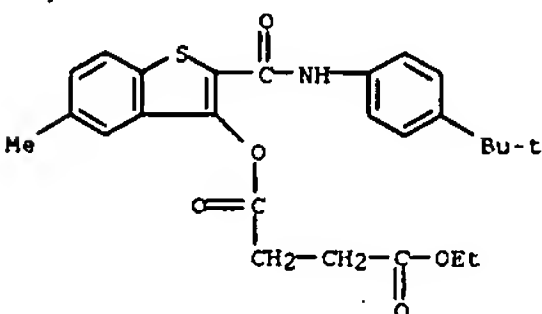
RN 115690-79-4 CAPLUS
 CN Butanedioic acid, 2-[[[3-(4-chlorophenyl)amino]carbonyl]-5-methylbenzo[b]thien-3-yl ethyl ester (9CI) (CA INDEX NAME)



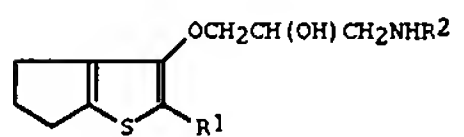
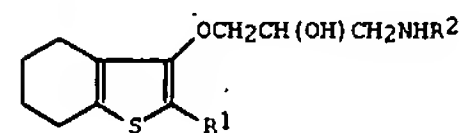
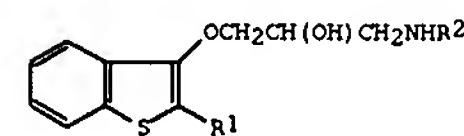
RN 115690-81-8 CAPLUS
 CN Butanedioic acid, ethyl 5-(methylthio)-2-[[[phenylmethyl]amino]carbonyl]benzo[b]thien-3-yl ester (9CI) (CA INDEX NAME)



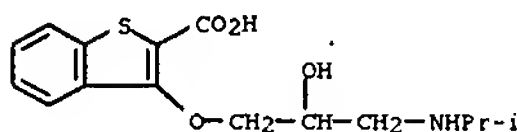
RN 115690-99-8 CAPLUS
 CN Butanedioic acid, 2-[[[4-(1,1-dimethylethyl)phenyl]amino]carbonyl]-5-methylbenzo[b]thien-3-yl ethyl ester (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1987:188464 CAPLUS
 DOCUMENT NUMBER: 106:188464
 TITLE: Studies on the platelet antiaggregating activity of three new series of thiophenes
 AUTHOR(S): Fraile, C.; Martin, D. A.
 CORPORATE SOURCE: Spain
 SOURCE: Anales de la Real Academia de Farmacia (1985), 51(3), 477-83
 CODEN: ARAPAY; ISSN: 0034-0618
 DOCUMENT TYPE: Journal
 LANGUAGE: Spanish
 GI



AB Sixteen title compds. (I, II, III; R1 = H, CO2H; R2 = iso-Pr, tert-Bu, dimethoxyphenylethyl) were tested for blood platelet aggregation-inhibiting activity in vitro with human blood. In general, III with a cyclopentane structure were less active than I and II, with benzene and cyclohexane structures, resp. The presence of a carboxyl group in the 2-position tended to decrease activity.
 IT 104236-47-7
 RL: BIOL (Biological study)
 (blood platelet aggregation-inhibiting activity of, structure in relation to)
 RN 104236-47-7 CAPLUS
 CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]- (9CI) (CA INDEX NAME)



L3 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1986:526818 CAPLUS
DOCUMENT NUMBER: 105:126818
TITLE: Bicyclic thiophenic derivatives as platelet aggregation inhibitors
AUTHOR(S): Darias, V.; Bravo, L.; Fraile, C.; Martin-Herrera, D.; Corral, C.; Lissavetzky, J.
CORPORATE SOURCE: Fac. Farm., Univ. La Laguna, Tenerife, Spain
SOURCE: Farmaco, Edizione Scientifica (1986), 41(6), 478-82
CODEN: FRPSAX; ISSN: 0430-0920
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The inhibitory activity of 20 bicyclothiophenes towards ADP-, adrenaline-, or collagen-induced aggregation of human platelets was examined. The activities were compared with those of standard reference compounds, aspirin, ticlopidine, trifusal, and sulfinpyrazone. Eight of the tested 20 compounds had inhibitory activity better than the reference compounds.

Structure-activity relations are discussed.

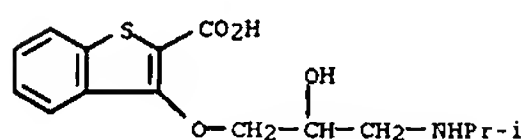
IT 104236-47-7

RL: BIOL (Biological study)

(blood platelet aggregation inhibition by, in human cells)

RN 104236-47-7 CAPLUS

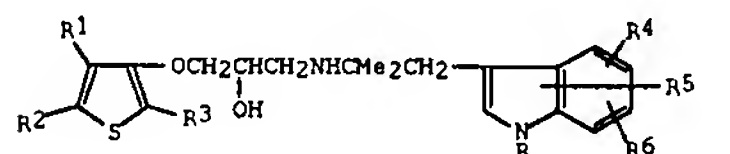
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]- (9CI) (CA INDEX NAME)



L3 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:125870 CAPLUS
DOCUMENT NUMBER: 98:125870
TITLE: Tryptamine derivatives of thienyloxypropanolamines and pharmaceutical compositions containing them
INVENTOR(S): Lessenich, Hans; Kunstmann, Rudolf; Lindner, Ernst
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
SOURCE: Eur. Pat. Appl., 38 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 65295	A1	19821124	EP 1982-104244	19820514
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
DE 3119796	A1	19821223	DE 1981-3119796	19810519
ES 512109	A1	19830216	ES 1982-512109	19820512
DK 8202253	A	19821120	DK 1982-2253	19820518
NO 8201651	A	19821122	NO 1982-1651	19820518
AU 8283781	A	19821125	AU 1982-83781	19820518
JP 57193476	A	19821127	JP 1982-82579	19820518
ZA 8203423	A	19830330	ZA 1982-3423	19820518
ES 513576	A1	19830316	ES 1982-513576	19820630
ES 513577	A1	19830316	ES 1982-513577	19820630
ES 513578	A1	19830316	ES 1982-513578	19820630
ES 513579	A1	19830316	ES 1982-513579	19820630
PRIORITY APPLN. INFO.:			DE 1981-3119796	A 19810519
OTHER SOURCE(S):			CASREACT 98:125870; MARPAT 98:125870	
GI				



AB The tryptamines I (R = H, alkyl, Ph; R1, R2, R3 = H, halo, alkyl, alkoxy, alkoxymethyl, CH2OH, (un)substituted Ph, cycloalkyl, cyano, NO2, NH2, CO2H, alkoxycarbonyl, (un)substituted H2NCO; R1R2 = 8-9 membered ring with 1 or 2 S; R4, R5, R6 = H, halo, alkyl, alkoxy, OH, Ph (un)substituted with alkyl or alkoxy or halogen, NO2, NH2, CO2H or alkoxycarbonyl, (un)substituted H2NCO) and their acid salts, useful in treating heart and circulation disorders and as antihypertensives, were prepared. Treating 1,1-dimethyl-2-(indol-3-yl)ethylamine in refluxing EtOH with 3-(2,3-epoxypropoxy)-2-thiophenecarboxamide for 3 h gave I (R = R1 = R2 = R4 = R5 = R6 = H, R3 = CONH2) (II) which had the same antihypertensive activity as bucindolol, but was significantly less toxic. The LD50 i.v. in mice of II was 74 mg/kg, whereas that of bucindolol was 9.6 mg/kg.

IT 85032-76-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

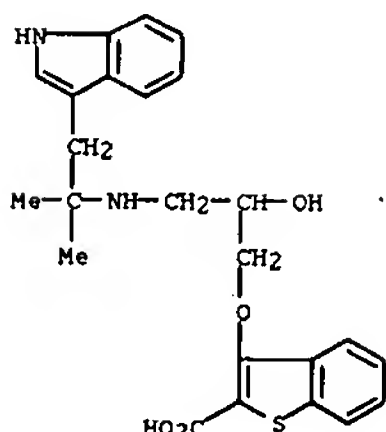
(preparation and thermal decarboxylation of)

RN 85032-76-4 CAPLUS

CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-hydroxy-3-[(1,1-dimethylethyl)amino]propoxy]- (9CI) (CA INDEX NAME)

L3 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)



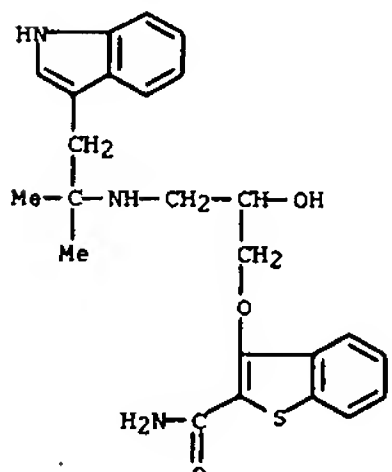
IT 85032-77-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

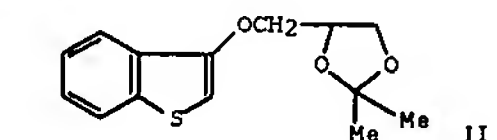
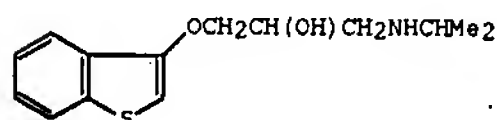
RN 85032-77-5 CAPLUS

CN Benzo[b]thiophene-2-carboxamide, 3-[2-hydroxy-3-[(1H-indol-3-yl)-1,1-dimethylethyl]amino]propoxy]- (9CI) (CA INDEX NAME)



L3 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:604387 CAPLUS
DOCUMENT NUMBER: 93:204387
TITLE: Analogs of propranolol. Synthesis of 3-alkylamino-1-(3-benzo[b]thienyloxy)-2-propanols
AUTHOR(S): Conde, Santiago; Corral, Carlos; Lissavetzky, Jaime
CORPORATE SOURCE: Inst. Quim. Med., Madrid, Spain
SOURCE: Journal of Heterocyclic Chemistry (1980), 17(5), 937-40
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 93:204387
GI



AB The thiophenic isoster of propranolol (I.HCl) and related compounds are prepared by 2 routes. The protecting and enolizing properties of the 2-methoxycarbonyl group on benzo[b]thiophen-3-one, along with its facile removal, are utilized in the first route. In the second one, conversion of 3-bromobenzo[b]thiophene into II is the key step. Hydrolysis of II to the corresponding diol, in order to obtain a furanic isoster of propranolol was unsuccessful.

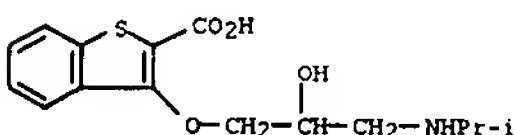
IT 71572-72-0P 75510-49-5P 75510-50-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and decarboxylation of)

RN 71572-72-0 CAPLUS

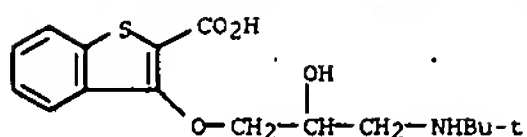
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

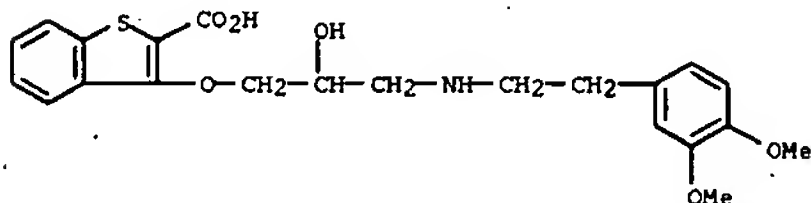
RN 75510-49-5 CAPLUS

CN Benzo[b]thiophene-2-carboxylic acid, 3-[3-[(1,1-dimethylethyl)amino]-2-hydroxypropoxy]-, hydrochloride (9CI) (CA INDEX NAME)



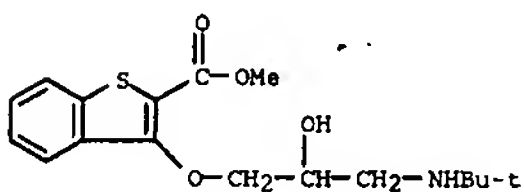
● HCl

RN 75510-50-8 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[(2-hydroxypropyl)amino]-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

IT 75510-46-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)
RN 75510-46-2 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[(2-hydroxypropyl)amino]-, methyl ester, hydrochloride (9CI) (CA INDEX NAME)

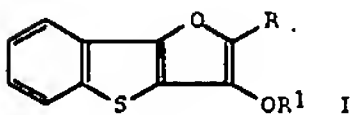


● HCl

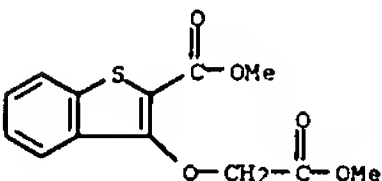
L3 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:135622 CAPLUS
DOCUMENT NUMBER: 84:135622
TITLE: [1]Benzothieno[3,2-b]furans
INVENTOR(S): Beck, James Richard
PATENT ASSIGNEE(S): Eli Lilly and Co., USA
SOURCE: U. S. Publ. Pat. Appl. B, 4 pp.
CODEN: USXXDP
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 574996	I5	19760217	US 1975-574996	19750506
US 3989718	A	19761102		

PRIORITY APPLN. INFO.:
US 1975-574996 A 19750506
GI



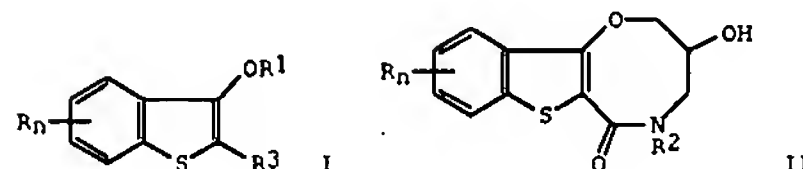
AB Benzothienofurans I (R = CO₂Me, CN, COMe, R₁ = H; R = CO₂Me, R₁ = Me), useful as bactericides, were obtained by O-alkylation of 3-hydroxybenzo[b]thiophene-2-carboxylates with ClCH₂CN, ClCH₂COMe, or ClCH₂CO₂Me followed by cyclization with alkali metal alkoxides.
IT 58108-07-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 58108-07-9 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)



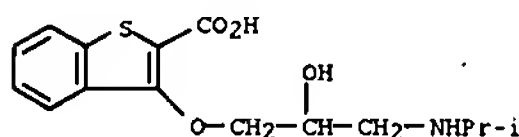
L3 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1979:611256 CAPLUS
DOCUMENT NUMBER: 91:211256
TITLE: 3-(2-Hydroxy-3-alkylaminopropoxy)benzothiophenes and their salts
INVENTOR(S): Corral Saleta, Carlos; Lissavetzky Diez, Jaime
PATENT ASSIGNEE(S): Consejo Superior de Investigaciones Cientificas, Spain
SOURCE: Span., 7 pp.
CODEN: SPXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Spanish
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ES 472158	A1	19790316	ES 1978-472158	19780728
			ES 1978-472158	A1 19780728

PRIORITY APPLN. INFO.:
GI



AB Title benzothiophenes I [R_n = H, undefined substituents; R₁ = CH₂CH(OH)CH₂NHR₂ (Q); R₂ = alkyl, aralkyl, aryloxyalkyl; R₃ = H] were prepared in several steps from I (R_n = same, R₁ = H, R₃ = CO₂Me), i.e., by (1) etherification with epichlorohydrin in Me₂SO containing Me₃COX, (2) oxirane ring cleavage-lactamization of I (R_n = same, R₁ = 2,3-epoxypropyl, R₃ = CO₂Me) with R₂NH₂, (3) hydrolysis of II with aqueous-alc. HCl and neutralization with HCl, and (4) thermal decarboxylation of I.HCl (R_n = same, R₁ = Q, R₃ = CO₂H). This procedure was used to prepare I.HCl (R_n = R₃ = H, R₁ = Q, R₂ = Me₂CH).
IT 71572-72-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and decarboxylation of)
RN 71572-72-0 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

L3 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:59261 CAPLUS
DOCUMENT NUMBER: 84:59261
TITLE: [1]Benzothieno[3,2-b]furan derivatives
AUTHOR(S): Beck, James R.
CORPORATE SOURCE: Lilly Res. Lab., Eli Lilly and Co., Greenfield, IN, USA
SOURCE: Journal of Heterocyclic Chemistry (1975), 12(5), 1037-8
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 84:59261
GI For diagram(s), see printed CA issue.
AB Benzothiophenecarboxylate I (R = H) was O-alkylated with ClCH₂CO₂Me, ClCH₂CN, and ClCH₂COMe in the presence of KO₂Me₃ to give I (R = CH₂CO₂Me, CH₂CN, and CH₂COMe), resp. Dieckmann ring closure of I (R = CH₂CO₂Me and ClCH₂CN) with KO₂Me₃ in C₆H₆ and of I (R = CH₂COMe) with NaOMe in MeOH gave the benzothienofurans II (R₁ = H, R₂ = CO₂Me, cyano, Ac), resp., which were alkylated with Me₂SO₄ and KO₂Me₃ in Me₂SO to give II (R₁ = Me). I (R = H) and MeNCO in refluxing CH₂Cl₂ with NEt₃ gave the benzothienoxazine III.
IT 58108-07-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and Dieckmann cyclization of, benzothienofurans by)
RN 58108-07-9 CAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-(2-methoxy-2-oxoethoxy)-, methyl ester (9CI) (CA INDEX NAME)

